Chemical Week INDEX

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McGRAW-HILL, INC.
330 West 42nd Street - New York, New York 10036

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Wintershall plans Antwerp expan- sion	Nov	4	56
Benzene Aromatics: output up, profits down,			
demand soft (chart) Japanese benzene producers' efforts to crack the U.S. market apparently unsuccessful; trade mission with-	Aug	12	7
draws offer	July Oct	15 28	66 27
Sanyo Petrochemical's plant uses a Houdry process Benzenoid imports see Tariffs — ASP;	Sept	16	23
Tariffs - Trade bill Benzoic Acid - Velsicol plant in Tenn.			
contract to Catalytic	Oct	7	19
materials; used in the mast of the Intrepid	Sept	30	31
Teijin develops new approach to making polyester for fibers N Beverages — Yoo-Hoo's high-protein	Nov	25	27
beverage plant in Santiago, Chile, onstream	Dec	16	18

issinger, Frederick - SOCMA's new			
president: Two new jobs for a busy man	Dec	9	54
blood – and might power an artificial heart – demonstrated N	July	8	40
America's Cup: Pace setter for boat- ing chemicals	Sept	9	48
Atlantic Research's plastic-hull target	Sept	16	25
boats for the U.S. Navy R Peru's growing glass-fiber fishing fleet	Nov	4	16
Bolivia			
Gulf to be paid more than \$100 million for properties seized almost a year ago	Sept	16	18
duction and marketing of Bolivian hydrocarbons	Sept	16	18
Book Reviews			
"Drug Abuse as a Business Problem — the problem defined with Guide- lines for Policy" by Carol Kurtis			
waste Conversion for Profits from	July	8	19
the Chemurgic Council	July	8	26
America's Cup series marks first use of boron-graphite composites in sailing			
yachts, joining chemical old-timers titanium and polyester	Sept	9	48
Microbicidal additive, Biobor, kills, bacteria in fuel tanks	Aug	5	53
Bartles Barex used in Pepsi-Cola's plastic			
bottle N July 8-39, N July 29-33, N Competition shapes up: Phillip's "Orbit-process "66," bottle; Dart's	Nov	4	64
Rexene's new PP copolymer Industry's new program to redeem glass bottles and recycle them though	Dec	9	10
furnace and bottle-blowing plants PVC bottle prices	July Aug	15 12	30 21
Used bottles will be repurchased, crushed and glass reused N Boyle, Thomas – ICWU's president: An		8	28
old-line labor leader with up-to-date ideas	Oct	7	60
ucts for under the hood	Aug	26	13
Brazil Japanese and Brazilian firms team to form Ciquine Petroquimica in Salvador, Brazil, to produce 2-			
ethylhexanol and n-butanol N Paperboard mill on the Rio Negro, at		5	79 10
Tres Barras N	July	1	10
Dow's new adsorption unit will recover phenol and brine from waste stream	Nov	4	60
Great Salt Lake brine tap begins with	Dec	9	45
British Society of the Chemical Industry – Iliff: Warns of need for prompt action to check slide of British chemical in-			
dustry	July	15	32
pace quickens Brooklyn Polytechnic Institute – Re- searchers Ledermann and Widhopf find way to use a laser for rapid de-	Dec	9	45
tection and measurement of air pollutants	N Aug	5	69
and chief executive officer, steering to billion mark (chart & table) Burdett, Philip — Remington Arms'	July	15	37
vice-president and general manager: He's no marksman, but he call shots			
for top gun firm	Oct	28	56
Japanese plant at Kawasaki		16	39
Mitsubishi		30	28
n-Butanol — Ciquine Petroquimica plant		29	33 79
at Salvador, Brazil		19	27
Buyers' Guide	Gct	28	Pt 2
C		,	
Cadmium - Prices	N Aug	19	85
Camping — Chemicals help campers	N Sept	23	22
make a home away from home	July Aug	15 12	56 5
Canada Allied isocyanates unit	R Dec	2	52
from Sweden's inoperative Marviken reactor	N Sept	16	68

Auto strike: GM strike pinches Canadian process companies, too	Oct	21	23
Auto strike settlements help ease U.S. auto suppliers' problems, but the outlook is still bleak in Canada	Dec	16	16
CACA's 18th annual meeting: Canadians are warned to expect less from pesticide performance	Cont	30	37
Caustic soda needs pose problems for	Sept		
chlor-alkali makers (table) Chemical producers are laying off employees and delaying new pro- jects because of an economic	Sept	9	43
slump	Aug	26	28
Sask: a long shutdown? N Du Pont of Canada postpones polyester	Nov	18	99
fiber plant N Economic slump stunts Canadian	July	22	39
chemical growth (table)	Nov Sept	25	33 17
Grace plans NTA plant in Ontario Gulf Mineral Resources' uranium pro- cessing installation at Lake	Aug	19	26
Wollaston, Sask., okayed	Sept	9	16
Ont	July Sept	9	27 20
chemical shippers	Oct	21	24
Maritime Provinces expanding Natural gas exports to U.S. boosted . N	Sept	9	37
NGL for U.S. approved	Sept	9	17
Line files pipeline application N Natural gas pipelines: Consolidated Natural Gas reapplies to permission to	Nov	4	10
ship natural and for associated pipelines	Nov	4	10
of gas from Canada to Northern Plains — FPC defers action	Dec	9	13
Newfoundland Refining's plans are set for financing new refinery	Nov	4	17
heavy-water plant vital to Canada's role as a supplier of power facilities	July	1	40
Potash: Japanese buyers and Saskatche- wan agree on purchase plan N Negotiating over minimum floor price N	Aug	5	60
Potash: Saskatchewan's new production	Oct	28	27
Saskatchewan and Vancouver get new	Nov	18	99
Profits dive for three of Canada's four	Aug	12	16
Pulp mills in B.C. are being struck R Recognizes Communist China,	Sept	2	28
establishes diplomatic relations N Silvichem process updates old idea, could turn wood waste into a major raw material for sorbitol and other	Oct	21	73
chemicals	July	29	30
prices hiked N Effort to imporve prices off to a	July	29	24
slow start	Aug	5	60
in northern Saskatchewan N Canada's Food Research Institute – Plant	Aug	26	11
orotein concentrate research	Aug	12	32
Canadian Argicultural Chemicals Assn. — Annual meeting (18th): Canadians are warned to expect less from pesticide			
performance	Sept	30	37
nation's cancer research effort and to speed it up	Aug	5	24
cause traces of potentially hazardous Salmonella bacteria found	Sept	30	17
aprolactam India's first plant to be built	Aug	5	84
Korean plant Mexican plant near Selamanca will use DSM process	Dec	16	38
Carbon, Activated	Aug	19	85
Battelle's activated carbon system to remove cyanide ions from plating wastes	Dec	16	54
could turn wood waste into a major raw material for sorbitol and other chemicals	July	29	30
Carbon Black Cabot denied Japanese patent rights on its oil-furnace carbon black process . N	Aug	19	97
Cities Service process turns old tires			31
into carbon black N Prices N Oct 7 37, Texas Air Control Board gives Columbian Carbon and Cabot Corp. final deadline	Dec	23	40
to halt pollution N Carbon Dioxide	July	8	10
CO2 initiation: secret to successful nylon-4 polymerization	Sept	16	67
by Chemetron's Cardox Div. at Getty's Delaware City complex	Nov	4	18
Liquid Carbonic's liquid carbon dioxide plant at Ft. Dodge. la R	Dec	16	18

alloy catalyst	Sept	16	67
nylon-4 polymerization Chemcell's plant completes partial conversion to methanol catalyst	Sept Sept	16	67 55
Dart Industries files judgment on Ziegler patent in battle over poly- propylene catalysts N Enzymes: insight into how enzymes may	Aug	5	69
work as catalysts obtained by Univ.			
Ford's '71 model equipped with a dual-	July	1 16	39 60
bed catalytic converter N Japan's Teijin sells rights to polymeriza- tion catalyst to ICI N	July	8	39
Peroxy initiators reduce cycle times in polymerization	Aug	5	53
Rhodia's new route to fragrances: catalytic reactions convert isoprene to			100
Waste treatment system uses multistage flash distillation to recycle catalysts	Nov	18	109
Caustic Sode			
AKZO plans new heavy-soda plant N Canada's caustic soda needs pose problems for chlor-alkali makers (table)	Oct	21	73 43
Japanese trial operation at			
Mitsubishi's ethylene center in Kashima	July Dec	9	34 41
plant	July	8	33
Capacity at Lake Charles, La N Prices N Sept 9 41	Sept Sept	30 16	11 24
Trend is up for chemical prices N	Dec	9	41 32
Waste reprocessing: doomed by lead-free gas? Process changes at refineries may hurt profitable spent caustic to			
World caustic is tight as demand grows	Dec	23	33
in developing countries (table)	Nov	4	22
Cellulose Du Pont will provide technology to			
Yugoslavia's Viskoza-Loznica for the production of cellulose film	New	25	32
film	Nov	9	7
Phrix's cellulosic fiber operations may close due to low profitability N Polymer Materials will double cellulosic	Aug	12	15
molding and extrusion compounds	Oct	21	26
capacity . R Silvechem process updates old idea, could turn wood waste into a major raw material for sorbitol and other	CCI	21	20
Vapor-phase unit to impart permanent	July	29	30
press to cellulosics and synthetic-cellulosic blends in garments N Centrifuges — report. Kenneth Brooks	Nov Sept	11 16	43 33
Ceramics			
Norton Co. licenses high-density	Oct	14	42
Cereals - Choate, R. Jr. criticizes nutritional value of breakfast cereals;	Dec	23	23
industry will lauch defense of products and advertising practices N Senate investigation (table)	Aug Aug	5	59 27
fortification of processed foods and			
federal standards for such products . N. Cereal makers defend products	Sept.	30	32 16
Chemical Marketing Research Assn.			
Delphic study predictions N Meeting — letter Chemical Plant Engineering Exhibition —	Nov Dec	25 9	21 5
Fifth annual: Chemshow Japanese	Sept	30	28
Style Chemical Specialties Manufactures Assn. — Meeting: Dow's process to bring soluble phosphorus into suspension	Dec	23	16
Chemical Warfare - Armed Services will continue with their defoliation program	n		
in Vietnam	Sept	2	26

"CHEMICAL WEEK"			
	July	15	5
	July	1	5
"CHEMICAL WEEK Reports" American beauty: a \$4.6-billion market			
in cosmetics, toiletries. Patricia L.			
Centrifuges. Kenneth Brooks	Oct Sept	21 16	54 33
Materials handling, G.V. Schultz	Nov	18	77
& maps)	Aug	19	51
Propylene – Oxirane direct-oxidation- propylene and pollution – letter Chemistry-70 Exhibition – Moscow's	July	15	16
show: Japanese, West and East Germans plan large exhibits, but U.S. partici-			
pation will still be light	Aug Sept Sept	26 23 30	29 39 26
m.a.			
Chile Foreign investments may be in jeopardy			
as Allende vows to nationalize basic industries	Oct	21	77
Yoo-Hoo's high-protein beverage plant in Santiago onstream	Dec	16	18
	000	10	
China, Communist Canada establishes diplomatic relations,			
recognizes Communist China N Fertilizer imports from Japan N	Oct Sept	21	73 56
Japanese fertilizer producers bow to Chinese Communist demands	July	22	38
	July	22	30
China, Nationalist German Remedies Taiwan joint drug-			
making venture	Dec	2	52
Dynel and turn out about 200,000	0	0	00
hairpieces/month Methanol plant at Miaoli R	Dec Nov	18	20 74
	Oct	21	77
(map) VCM plant near Toufen	July	29	26
method to remove cyanide ions from	-	10	F.4
plating wastes	Dec	16	54
Chlorine AKZO will increase production and			
build a new heavy-soda plant N Brink mist elimators can recover mer-	Oct	21	73
cury from the hydrogen streams of			
mercury cell caustic chlorine plants . N Canada's caustic soda needs pose	Dec	9	50
problems for chlor-alkali makers (table) Contract bids may develop into a federal	Sept	9	43
case for the six companies that	hiller	0	0
submitted identical bids N Germany: Bayer starts up plant at		8	9
Dormagen	Nov	4	56
Mercury discharges face tighter limits as U.S. moves to ban discharges by industry in 17 states	July	22	35
Mexican electrolysis chlorine-caustic			
plant	July	8	33
capacity at Lake Charles, La N Prices N Sept 9 41,	Sept Sept	30 16	11
Prices N Sept 9 41,	Aug	5	79
Chloromethane			
Dow plans expansion at Plaquemine, La., plant	July	29	19
Solvay plans plant at Tayaux, France	July	22	38
complex R Japanese plants under construction R Cholesterol – Michigan biochemists suggest	Dec	16	39
new way to kill insects: Starve them of	Doo	16	60
cholesterol	Dec	10	00
describes the use of paper chromato- graphy to identify dyes at AATCC			
conference	Nov	11	23
problem may be eased N Cigarettes - Nader, R. says toxic inorganic	July	1	10
additives being used to make popular			
priced cigars, cigarillos and maybe	Oct	7	14
cigarettes			
emulsion called Tuklar to the Russians . N	July	15	73
Clindamycin – Upjohn selling Cleocin	Aug	19	26
Asarco will buy four Illinois coal			
mines from Peabody Coal N COED pilot plant in Princeton, N.J.			17
dedicated by FMC N Columbia Coal Gasification Corp. set	Oct	21	88
up to develop a low-cost, direct sub-		00	22
stitute for natural gas from coal N Gasification to make pipeline gas has to	Dec	23	23
come in the U.S. says IGT's H. Linden	Dec	23	23
Interior Dept. plans to phase out coal	July		19
Kentucky envisions commerical plants			
for coal-to-gas conversion	Oct		20
to get sulfur out of coal			79
liquids	Oct	21	88
(charts)	Oct	21	21

"CHEMICAL WEEK"

Stack gas emission see Air Pollution A 275-mile pipeline will take low-sulfur				cultural communities envisioned Lake Erie bridge would be an aid to	Nov	18	74	vent the reproducti and other documen
coal from Black Mesa on the Navajo				chemical shippers Plant sities report. J.M. Winton. Building	Oct	21	24	tribution
Mohave, Nev	July	15	79	costs (chart)	Aug	19	71	poromeric entry
come (charts)	Sept	2	21	tively" good year in '71 Seamless floors: Contractors and suppliers seek to rebuild a sagging	Oct	28	18	Prices
Coatings BASF's polyisobutylene, Oppanol, for				market . Spray urethane foam will have big market	Nov	18	96	Starch prices feelin corn blight
Pioneer Plastics' new material for	July	8	39	in roofing N Sprayed asbestos for fireproofing faces	Nov	4	24	Cosmetics - America billion market in co
decorative surfacing N Polymer coating for pesticides will be	Sept	2	90	restrictive legislation	Sept	16	62	reports. Patricia L.
tested	July	8	21	forecast	Aug	12	13	Costs Army's nitric acid
Sprayed asbestos for fireproofing faces	July	29	36	in '71 N Urethane: foamed-in-place rigid urethane	Oct	28	13	the Army goof? (Building costs go sk
restrictive legislation	Sept	16	62	wins okay for structural and in- sulation use in houses	Dec	2	20	CPI going for bigge processes in attem
sources and kinds of future foods	Aug	12	32	Consumer Products				costs that are out output (chart)
Coke Coke ovens: a major source of coal-tar				President Nixon's order would make public all information compiled and				Chemical prices clir costs hit the ceilir
chemicals for years to come (charts) CONOCO partner in Spain's first	Sept	2	21	used by the government in its pur- chase of nondefense products	Nov	4	17	 letter
petroleum coke plant	Dec	16	42	Safety bill hearings N Contact lenses — Bausch & Lomb to	Aug	26	20	hopes (chart) Construction in the
Gramercy, La., complex planned R Metallurgical coke plant at Bakersfield	Oct	21	26	seek approval to market Soflens hydrophilic contact lens N	July	22	34	nearly 10% in '71 Conversion to metr
Calif., under construction	Oct	28	21	Containerization — Containerization of small-lot orders cuts cost, speeds				chemical industry over a 10-yr perio
granular petroleum coke N National Steel orders 87 coke ovens . N	Oct Nov	28	35 13	delivery	Dec	23	43	Drawings by compu Grace documents for
National Steel plans coke plant on Brown's Island, W.Va	Aug	19	27	Containers Alcoa's recycling aluminum can				gap by systems ar tables)
Colombia				program N	Aug	26	11	Jersey Central P&L costs show nuclea
Fiber firms boost polyester output, plan flake making	July	8	33	Bottle competition shapes up: Phillips' "Orbit" – process "66" bottle; Dart's Rexene's new PP copolymer	Dec	9	10	so cheap Maintenance costs
Renault auto plant new pattern for foreign investors?		5	80	Can-maker talks could affect labor pic- ture for nonferrous metals	Nov	25	14	costs 10 to 15% i
Synthetic detergent plant for Ecopetrol R Colors – Alkyd color prices N	Aug Aug July	12 29	16 24	Containerization of small-lot orders cuts cost, speeds delivery	Dec	23	43	Materials handling Schultz
Columbia University — Cold water test: pipeline lowered into ocean in an attempt	July	29	24	NYC litter to wind up in the (plastic)	Sept	16	25	Oxygen producers ment (chart)
to produce an artificial upwelling of	Aug	19	106	"Self-destruct" plastic container from	Jept	10	20	Petrochemical pollureuse, a cost-cutti
cold, deep ocean water	Aug	15	100	Great Britain	July	29	34	chemical plants
Applied Automation offers money-back				Contractors	Nov	25	28	Correction — lett Plant sities report . (charts & tables)
guarantee on computer control systems N	Aug	5	69	Building costs go sky-high Chlorine contract bids may develop into a	1404	20	20	State-by-state cor
Chemical companies seeking the best way to keep their process control com-			50	a federal case for the six companies that submitted identical bids N	July	8	9	power costs Shipping costs
puters in working order Common Market's chemical industry is	Nov	4	59	Engineering contractors going in for international tie-ups	July	22	33	Building costs Labor cost
best prospect for purchase of large computers study finds N	Aug	19	31	Japanese contractors gird for battle with overseas rivals	Sept	30	28	Pollution control s when and how m
Computer-designed drugs — ACS meeting	Sept	23	46	suppliers seek to rebuild a sagging	Mari	10	96	Researchers cost m salaries and cost
Data services help companies find mar- kets, customers	Dec	16	49	market	Nov	18	90	going up rapidly Soda ash producers
Drawings by computer cut piping costs	July	15	75	Contracts Building is down — F.W. Dodge report	Testes.	0	17	Transportation cos
GE process-control mini-computer system	Oct	21	86	(charts) Conoco's U.K. refinery at Immingham	July	19	97	to divert shipmer barges and expan
Honeywell's program being used to inter- pret aerial photos of forests, may find				contract price to be boosted N Construction contracts rebounded in June N	Aug	5	18	Cottonseed - Food
other jobs in ecological studies N IBM's mini-computer looking for process	Sept	16	68	Value of contracts for new construction	Aug			sources and kinds Council on Environr
industries work N IBM's new king-size computer,	Nov	4	63	Value of residential building will rise	Oct	14	14	annual report Cresylic Acid — Mer
System/370 introduced N Japanese showing progress in the use	July	8	10	21% in '71 N Value slipped back in Sept. R	Oct	28	13 18	pansion Cresylics – Waste re
of computers to design chemical plants	Sept	30	28	Controllers Control system for hybrid cars would				lead-free gas? Proc may hurt profitable
Market data on tape: PACEX Capacity Data Bank	Sept	23	43	automatically switch from engine to				cresylic reprocessir Cumene — Shell's pl
Materials handling – report G.V. Schultz	Nov	18	77	GE develops new techniques for	Aug	19	107	France R Sept 2
SRI's new forecasting tool helps companies utilize capital	Nov	4	15	Process control	Oct	21	86	Cyanide Du Pont process fo
Time-sharing helps on-line order- entry system speed product dis- tribution	A	12	22	report R Copolymers	Sept	23	19	cyanide from zin
Time-sharing system set up to search and match curves produced by infrared	Aug	12	22	Barex 210 glass substitute description			04	Zeroing in on plat processes gang u
spectroscopy Tire recall service to the industry	Sept	2	65	Celanese's coupling agent improves		29	31	from plating bat Cyclamates — Canac taining cyclamates
will be offered	Aug Sept	19	25 87	acetal copolymer tensile strength N EVA copolymers prices N	July	15	80 27	Cyclododecane — M
Connor, John Thomas – Allied's chairman and chief executive officer: Sees light	Jept	2	07	Copper				new way to make nylon-12
at tunnel's end for sluggish giant A critic of the war in southeast Asia	Aug	12	27 36	Chemical extraction process for getting copper from sulfide ores research program	Late .	15	79	Czechoslovakia – N
Construction	Aug	12	30	- letter	July	12	5	
Building costs go sky-high	Nov	25	28	Copper-manganese alloy that will dampen noise developed N Duval discloses pollution-free, hydro-	Aug	12	33	
Building is down - F.W. Dodge report (charts)	July	8	17	metallurgical system of processing		40		
Celanese's world headquarters to be built on N.Y.'s Avenue of the Americas . N	Sept	23	12	copper ore concentrates	Aug	12	12	DDT
Hercoform moves into modulars: com- pany previews two completely furnished				Mexico's Nacimiento copper mine R Freeport Sulphur pressing forward with	July	8	20	Australia testing to substitutes
models of a projected condominium townhouse complex	Dec	16	15	its diversification into copper, nickel and asbestos	Oct	28	21	Collembola and the produce an enzy
Hoffman-LaRoche: chemical fume exhaus ducts concealed in stainless steel en-				Kerr McGee discovery near Patagonia, Ariz	Sept	30	17	to its derivative Ecology faction pr
closures at new lab in Nutley, N.J Home building spurs major expansions for		9		New approaches to getting copper out of the ground; one idea — bacterial			-	tions on pesticid pesticides contin
formaldehyde (table) Housing: Big job for plastics as home-	Sept	16		approach	Oct Dec	28	35 20	FDA proposes low sidues of DDT o
Housing: set for take-off in '71	Dec Sept	23	19	Pima Mining expands copper production at its mill near Tuscon, Ariz	Dec	16	15	products Montrose Chemica
Housing: 20% pickup? Houston city council votes to permit the	Nov	25	16	Prices			85	charges into San Mrak, E. avers the
use of plastic pipes for drainage in commercial buildings	July	1	15	nine years	Oct	28	28	minute pesticide harm to the hum
Japan to push prefabs: series of agri-				paper for use with special ink to pre-				Pesticide producer

vent the reproduction of newsletters and other documents for limited dis-			
tribution	Nov	18	110
poromeric entry	Nov ·	11	34
Corn Prices N			
Blight ups corn prices	Aug Sept	26	27 24
corn blight	Oct	28	27
Cosmetics – American beauty: a \$4.6-			-
billion market in cosmetics, toiletries - reports. Patricia L. Layman (tables)	Oct	21	54
Costs			
Army's nitric acid plant bids: did the Army goof? (chart)	Aug	19	103
Building costs go sky-high CPI going for bigger plants and better	Nov	25	28
processes in attempt to offset labor costs that are outpacing per-man			
output (chart)	Dec	16	13
Chemical prices cling to the floor, but costs hit the ceiling (chart)	Nov	18	41
Coal shortage chills chemical profit	Dec	16	5
hopes (chart)	Oct	21	21
nearly 10% in '71 N	Oct	28	13
Conversion to metric system could cost chemical industry about \$1 billion			
over a 10-yr period	Oct	7 15	19 75
Grace documents fertilizer price-cost gap by systems analysis (chart &			
tables)	Sept	2	92
costs show nuclear power not			
So cheap	Aug	5	70
costs 10 to 15% more each year to keep	hulse	20	29
Materials handling - report, G.V.	July	29	
Oxygen producers zero on waste treat-	Nov	18	77
ment (chart) Petrochemical pollution: waste-stream	Nov	18	95
reuse, a cost-cutting must for petro-	Oct	7	49
chemical plants	Dec	2	5
Plant sities report J.M. Winton (charts & tables)	Aug	19	51
State-by-state comparison of industrial	Aug	19	58
power costs	Aug	19	66
Building costs Labor cost	Aug Aug	19	73
Pollution control spending survey: who, when and how much (table)	July	8	23
salaries and cost of support facilities			
going up rapidly (chart)	July	22	30
Soda ash producers switch to trona to counter rising costs	Dec	9	32
Transportation costs cause companies to divert shipments from rails to			
to divert shipments from rails to barges and expand truck fleets	Oct	14 26	17 27
Cottonseed — Food conference focus: new sources and kinds of future foods	Aug	12	32
Council on Environmental Quality - First		19	18
annual report	Aug		
Cresylics – Waste reprocessing: doomed by	Oct	7	19
lead-free gas? Process changes at refineries may hurt profitable spent caustic to			
cresylic reprocessing	Dec	23	33
France R Sept 2-85	Sept	16	18
Cyanide			
Du Pont process for removing cyanide from zinc electroplating rinse			
water	Nov	18	113
processes gang up on cyanide waste	0	16	
from plating baths	Dec		54
taining cyclamates N Cyclododecane – Mitsubishi develops	Sept	2	17
new way to make cyclododecane for	Sept	2	89
nylon-12 N Czechoslovakia – Nitric acid plant N	Aug	5	80
D			
DD7			
Australia testing two promising DDT			
substitutes N Collembola and the soil mite thought to	Aug	12	33
produce an enzyme that degrades DDT	Cort		15
to its derivative DDE	Sept	9	15
pesticides continues to grow rapidly	Aug	5	21
FDA proposes lower tolerance for re- sidues of DDT on 53 agricultural			
products	Dec	16	24
charges into Santa Monica Bay	Nov	4	16
Mrak, E. avers there is no evidence that minute pesticide traces in food cause			
harm to the human organism N Pesticide producers ordered to reword	Oct	7	13

labels on nine products	Nov	11	23	and disinfectants in killing bacteria and viruses	h in		10	ages, controlled-release pesticides,	C		or.
underscores the obvious: some of the				Disodium Carbencillin - Pfizer selling	July	1	19	Du Pont, Pierre IV — Mr. du Pont goes to	Sept	2	65
oldtime bug-killers have just about had	Λιια	12	9	Geopen, a semisynthetic penicillin	Aug	19	26		Nov	25	40
USDA broadening its review of pesticide	Aug			Distillation				lems discussed at AATCC converence	Nov	11	23
applications	Sept	9	18	Polish scientists develop economical heavy water process using a distillation				Dyes - Sales increases as a result of flag boom	July	29	36
Defense Department				technique	Aug	26	33		July	2.0	50
Military buying of CPI products is dropping	Nov	18	49	Waste treatment system uses multistage flash distillation to recycle catalysts,							
Military inefficiency sharply criticized . N	Aug	5	59	fresh water, recover salt from wastes							
Defoliation Chemicals — Defoliating in South Vietnam will be dropped	luke	15	27	of plant making fine chemicals	Aug	5	51	_			
Armed Services will continue with their	5514			Distribution				-			
defoliation program in Vietnam De-icers — Jet fuel anti-icing additive	Sept	2	26	Celanese teaching distributors how to sell solvents	Aug	19	86	_			
pricesN	Sept	23	22	Chemical distributors expect improved				Education			
Delaware - Wilmington's ghetto tells chem- ical firms: "It's up to you." Meyer Lurie.	Sept	2	37	business conditions in second-half '70 N Chemical distributors wrestle with	July	29	24	Thiokol's program for teaching and training the disadvantaged turns			
Demineralization – Mine water demineral-	Jopt	-	31	sliding sales and profits (charts)	Oct	28	31	into new husiness	July	22	41
ization plant at Wilkes-Barres, Pa. ground broken	Oct	28	14	Computer time-sharing helps on-line order- entry system speed product distribution	Aug	12	22	Wilmington, Del., ghetto tells chemical firms: "It's up to you", Meyer			
broken	oct	20	1.4	Materials handling - report, G.V.				Lurie	Sept	2	37
dorant spray: FTC receives number of complaints from physicians about vulvar				Schultz	Nov	18	77	Electric Power Generation			
irritation N	July	15	65	for Tuberias y Materiales Plasticos				'Ecology power' is turning off electric			
Desalting see Water Treatment				will be built with Japanese help N Doran, A. Benedict — Union Camp's Chem-	Aug	5	80	power: rates must rise to improve reliability	Aug	19	21
Desulfurization - Heavy-fuel desulfuriz-				ical Div. V-P and general manager - His				Electric power for sale from Northwest			
ation plant in South Portland, Me., awaits approval N July 29 11	Aug	5	18	mission: double division sales by '75 Drafting – Drawings by computer cut	Dec	2	56	Aluminum	Aug Aug	26	15 59
				piping costs	July	15	75	Power-plant site selection overhaul			
Detergents Detergent phosphates				Drilling — Project Rulison: apprehension	Aug	5	59	sought by White House	Oct	14	21
Bans on detergents are spreading at	0	22	1.6		riug	9	55	study to be made by General			
State and local levels	Dec Aug	23 26	14 16	Drugs Advertising: FTC to adopt rule regulating				Dynamics N Union Oil of Calif: Contracts for the	July	22	34
Becomes the first city to crack down				advertising of aspirin and other non-				conversion of the geysers area of			
on detergent phosphates N DeSoto-Sears team up for detergent	Oct	21	17	prescription analgesic drugs	Oct	28	20	northern California into world's largest source of electrical energy			
without phosphate and NTA	Aug	12	31	trust suit against Plough and Atlas					July	29	16
DeSoto to supply Armour-Dial with a phosphate-free, and presumably NTA-				Chemical over licensing of remedies	Oct	7	17	Worldwide distribution network proposed	Aug	19	24
free, heavy-duty detergent N	Dec	23	40	Aspirin: Merck tests new pain killer,	OCI				Aug	19	24
Household laundry and dishwasher de- tergents will soon carry labels showing				flufenisal, aiming at a "super aspirin", — letter	July Sept	15	51	Electrolysis Mexican chlorine-caustic plant R	July	8	33
their phosphate content R	Nov	18	46	Behavior-modifying drugs' use on prob-	Sept			Resource Control's electrolytic device to	July	0	00
N.Y. City may phase out phosphate- containing detergents N	Nov	18	38	lem school children will be studied , N Computer-designed drugs – ACS meeting	Nov Sept	18 23	49 46	remove cyanide ions from plating	Dec	16	54
Prospect of ecology hassle spurs use of				Contraceptives: AMA and PMA split				wastes	Dec	16	54
new 'builders'; NTA displacing some phosphates despite new data	July	15	23	over birth control pill N Contraceptives: Four manufacturers of	Aug	19	17	Electronics GNP clock — an electronic device ticks			
Ecolo-G: ecological detergent a washout?	Sept	30	14	"the pill" are being sued in Detroit . N	Dec	16	9	off the growth of the economy	Dec	23	14
letter letter letter Eldib study speculates that detergent	Nov	25	5	Contraceptives: hormone approach to birth control is nearing the marketing				"Gun detector" to help prevent airplane	Oct	7	17
legislation may mean major changes		10	100	stage	July	1	39	hijackings	OCE	,	1.0
in detergents N Enzyme detergents' effects on health	Nov	18	100	Contraceptives: Ortho's Ortho-Novum and Searle's Enovid get favorable court				Electroplating Copper-bearing electroplating chemical			
study okayed	Oct	21	24	ruling	Sept	30	17	prices	July	1	27
Enzyme producers strike back at critics. LAB for soft detergents may soon find	Oct	14	20	Contraceptives: Upjohn's Provest with- drawn from the market	Nov	4	15	Zeroing in on plating wastes, three new processes gang up on cyanide waste			
a large domestic market in Italy	Aug	12	25	Diabetes: Upjohn's Orinase won't be taken				from plating baths	Dec	16	54
Marchon Italiana plans organic detergent raw materials plant at Alcover, Spain R	Oct	7	42	off the market Ethical drugmakers' role shifts	Nov	21	15 25	Employment			
N.Y.'s Suffolk County proposes banning				Fertility drug, Pergonal, receives FDA				Chemical companies hold the line on			
all detergents "containing surfactants manufactured from benzene sulfonate"				approval for marketing in U.S N FDA lists 369 drug products as "ineffec-	July	8	40	employment (table) 'Instant Negroes' aren't the answer —	July	29	17
(chart)	July	1	17	tive or unduly hazardous"	Dec	9	14	Viewpoint	Oct	7	5
N.Y.'s Suffolk first in U.S. to clobber detergents	Nov	18	46	German Remedies Taiwan joint drug- making venture	Dec	2	52	'We need these skills and abilities' – Viewpoint	Sept	2	5
NTA: Ethyl may become producer N	July	22	9	Heart: Searle files application for chemical	Dec	-	JE	Emulsitiers — Nonionic emulsitier, BP's	Cope	-	
NTA as phosphate replacement for formal dehyde boosts formaldehyde (table)	Sept	16	59	compound to treat irregular beating of the heart	Aug	19	27	1100, used to break up oil slicks from "Pacific Glory" N	Nov	4	64
NTA needs study - letter	Sept		14	Hormones see Hormones	,		-				
Pollution: optical brighteners used in detergents found in fat of fish taken				Labeling: Drugmakers oppose FDA labeling and advertising requirements	Oct	28	21	"Magnetic bottle", Tokamak, may be			
from discharge areas of two Swedish		-	00	Mental drugs: Methadone, new pharma-			-	key to controlling fusion reaction	Dec	23	27
Polyester-cotton blends and straight	Aug	5	69	ceutical form will be used at heroin- addiction treatment centers in the U.S.N.	July	15	19	Plant sites report, J.M. Winton, State- by-state comparison of industrial			
polyester fabrics may force reformu-	l No.	10	100	Narcotics: Analytical labs are supplying		-		power costs (table)	Aug	19	58
Production in Eastern and Western		18	100	mass screening services to help identify habitual drug users among potential				Power study spells out the obvious – the need for more	Oct	7	18
Europe will nearly double by '80 N Sales of synthetic detergents rose 5,1%	Oct	21	31	employees	Dec	2	41				
in first-quarter '70	July	1	27	Kurtis	July	8	20	Engineering Army's nitric acid plant bids, did the			
Sears, Roebuck thinking big about its detergent marketing	Oct	21	31	Narcotics: Drug abuse — firms seek answers to growing employee problem.	Nov	4	66	Army goof? (chart)	Aug	19	103
Sulfopolycarboxylic acids: New contender			01	Narcotics: The drug problem is your		**		Building costs go sky-high	Nov	25	28
for detergent markets emerging in Europe	Nov	25	27	problem — Viewpoint	Nov	25	5 16	sulfite pulping process will yield pulp at least as strong as sulfate pulp, with-			
Citrex is probably sulfonated poly-				Narcotics: Paraphernalia such as cap-	1404	25	10	out the usual strong odors	Aug	26	31
Synthetic detergent plant for Colombia's	l Dec	2	35	sules and drug-cutting aids - three				Great Salt Lake brine tap begins with potassium sulfate shipment	Dec	9	45
Ecopetrol	R Aug	12	16	companies taking steps to prevent illegal use	Oct	14	21	ICI process injection-molds stiff plastic	Dec	9	45
Warf Institute will carry out study of effectiveness of detergents and disin-				Nasal sprays: plans to ban 15 such combi- nation drugs from the consumer market	C	0	20	over foamed core; auto market is	Cont	23	53
fectants in killing bacteria and viruses I		1	19	Fluorocarbon propellant gas makers	Sept	2	28	first target	Sept	21	99
Diatomite — Icelandic mine and processing plant near Lake Myvatn	R July	8	33	strike back at critics	Oct	14	20	Liquid-feed cracking is key to chemical processing in the '70s	Nov	11	41
Dicyandiamide – Prices	Nov		17	New-drug development will be limited due to clinical research crisis as a result				Naphtha cracking: a new route for making			
"Dimension U.S.A Commitment En- vironment" — Mobil show will highlight				of new FDA rule N	Oct	21	88	Polymer processes: U.S. engineers reveal	July	8	30
latest efforts in pollution control and				Parkinson's disease: L-dopa makers push natural, synthetic routes to drug	Oct	21	99	new process for Epsan, a rival for ABS;			
environmental research	Nov	11	13	Parkinson's L-dopa drug to be marketed				Japanese tell of new routes to PVC and	Aug	5	43
Dimethyl Silicons				in Mexico	Nov	11	23	Silvichem process updates old idea, could	Mug	5	43
Prices of fluids and emulsions	V Oct		37	panacea of the '70s	Oct	28	45	turn wood waste into a major raw mat-	lanta.	~	20
Dimethyl Sulfoxide — FDA approves DMS	N Oct	14	28	Testing: FDA's demands for proof of efficacy of older products is cutting				erial for sorbitol and other chemicals . SO2 emissions: NAPCA offers to help	July	29	30
for use by licensed veterinarians to re- duce acute swelling associated with traum				down time that overburdened clinical				support development of processes for			
in horses	N Aug	12	33	researchers can spend on testing new drugs	Dec	2	39	sulfuric plants, sees treatment of tail gas as best solution	Sept	9	51
Dimethyl Terephthalate — Teijin plans joint-venture Turkish plant			43	Vaccines: Three-in-one vaccine against common measles, mumps and rubella N	Dec	23	23				
Dipeptidyl Aminopeptidase – Enzyme		,	40	Washington conference emphasizes	Dec	23	23	Engines			
can take apart proteins by starting at the head of the protein chain and removing				consumers' concern with federal	Dec	23	18	Freon touted for use in pollution-free		20	00
two amino acids at a time	N Aug	12	33	Water-degradable polymers: Organic	2000	23	10	auto engines N Steam engines for cars are a golden	Aug	26	33
Disinfectants — Warf Institute will carry out study of effectiveness of detergents				acids that can be polymerized then slowly degraded are basis for pack-				opportunity for the chemical	Des	10	00
				and and and one pack				industryN	Dec	16	60

nvironment AIChE's 63rd annual meeting. Pollution	Dani	9	12
Can aerospace industry know-how lick the pollution control problems? Con-	Dec		
flicting answers N Canadians are warned to expect less	Dec Sept	30	37
Council on Environmental Quality's first	Aug	19	18
Dow says that all future process units built at Midland, Mich., will be closed	Sept	30	31
Duval discloses pollution-free, hydro- metallurgical system of processing	Aug	12	12
	Sept Nov	30 25	14
continues to grow rapidly Ecology fervor sparks refinery building	Aug	5	21
boom; could put pinch on aromatics, propylene (table) "Ecology power" is turning off electric power: rates must rise to improve	Nov	25	11
reliability	Aug	19	21
may impose tougher antipollution rules	Oct	28	17
European pesticide pact to protect the environment	July	29	28
Flash distillation may turn fine chemicals waste into profit	Aug	5	51
in South Portland, Me, awaits approval N July 29-11 N Georgia seeking legal action to get West	Aug	5	18
Point-Pepperell moving on installation of pollution control equipment at its			
mill at Lindale, Ga Georgia wants timetable from Hercules for "adequate treatment and control or elimination" of toxaphene discharges	Aug	12	13
from its Brunswick, Ga. plant into	Aug	12	11
Grass to reseed vital tundra ground on Alaska's North Slope N	Nov	18	38
rioneywell's computer program being used to interpret aerial photos of forests, may find other jobs in eco-	,,,,,,	10	
logical studies	Sept	16	68
order	Dec	9	14
charges N Japan's pollution curbs result in shortages,	Dec	2	43
higher prices Japan's rapid industrial growth, lack of pollution legislation cause major prob-	July	29	26
lems despite heavy plant spending for controls Japanese problems: air pollution, slaughter of sperm whales, mercury	Dec	9	42
spillages and now maritime fleet charged with dumping oil into the sea N Joint committee on environment recom-	Aug	5	69
mended by Commerce, Interior, Public Works committees N	July	8	21
A lively time with the environment — Publisher's Page	July	8	5
Machiasport, Me., coastal water pollution hearings postponed N	July	8	9
MCA 20th semiannual meeting: draws a bead on environment, productivity and exports	Dec	2	21
Metal polluters? Federal surveys to deter- mine role of heavy metals other than mercury in contamination	July	22	19
Michigan Gov, Milliken may introduce an anti-litter law that will ban sale of one-	Nov	25	16
Monsanto will no longer market PCB plas- ticizer as water-resistant plasticizer or as	July	22	9
Mrak, E. avers there is no evidence that minute pesticide traces in food cause			
harm to the human organism N 'Natural' pesticides, still far from the	Oct	7	13
Merve gas disposal bugs Army	Aug	19	23
New Jersey: nine industrial giants are polluting the air		12	6
trol costs kill a plant	Aug	19	91 45
trol deadlines — letter July 22-5 (letter Aug 26-5) Pennsylvania makes it tougher on pol- luters	Aug		12
Petrochemical pollution: waste-stream re- use, a cost-cutting must for petro-	Oct	7	49
chemical plants Plant sites report J.M. Winton — Drought-resistant rivers (table) Pollution control and environmental re- search will be biothichted in the mobile	Aug		74
search will be highlighted in the mobile show "Dimension U.S.ACommit- ment Environment" to start in June '71	Nov	11	13
Pollution control spending survey: who, when and how much (table)	July		23
Power-plant site selection overhaul sought by White House	Oct		21
Golden opportunity for leadership – Viewpoint	Nov	18	5

dustrial polluters San Francisco pollution damage suit claims that pollutants caused the	Nov	18	46
deaths of livestock N States look to Supreme Court to settle	Sept	9	9
sticky pollution cases	Dec	23	15
tomorrow's profits? (table)	Oct	14	49
gas? Process changes at refineries may	Aug	19	5
hurt profitable spent caustic to cresylic reprocessing Environment see also Air Pollution, Water Pollution	Dec	23	33
Environmental Protection Agency Pesticides regulation will be one of the areas taken over by EPA N	Nov	18	49
Ruckelshaus, W.D.: Golden opportunity for leadership — Viewpoint	Nov	18	5
 letter Ruckelshaus, W.D. new environmental protection chief, will be hard on in- dustrial polluters 	Dec	16	5
Enzymes			
Catalysis insight into enzymes that may work as catalysts obtained by Univ. of Calif.'s D.E. Koshland, Jr N	July	1	39
Detergent makers OK government-in- dustry enzyme study	Oct	21	24
Detergent producers strike back at	Oct	14	20
critics Dipeptidyl aminopeptidase can take apart proteins by starting at the head of the protein chain and removing two amino	Oct	14	20
acids at a time	Aug	12	33
Equipment			
Centrifuges - report, Kenneth Brooks , . How modern is U.S. industry - new study	Sept	16	33
by McGraw-Hill's Economics Dept. Wage hikes and rising prices of materials and equipment boost plant construction	Dec	2	19
Ethers - Monomethyl ethers of ethylene	Nov	25	28
glycol and diethylene glycol prices N Ethrel 2-chloroethyl phosphonic acid — Growth stimulant is new way to hypo	Sept	23	22
natural rubber yield	Aug Nov Dec	5 11 16	73 43 39
Ethylene	Dec	16	39
Argentina: Dow considers Argentine part- ners for ethylene-based petrochemical			
project in Bahia Blanca N BP's VC plant based entirely on ethylene	Aug	12	15
due to start up in Baglan Bay, Wales . N Crude-cracking unit to make ethylene and	Dec	9	49
acetylene starts up in Japan N Dow Chemical ethylene capacity at	Nov	11	43
Sarnia, Ont., will not be increased . N East Germany orders plant N Hoechst's Gendorf VC plant will switch	Aug Aug	26 5	28 80
to oxychlorination process employing only ethylene N Hungarian plant N Indian Petrochemical to build unit in	Oct Sept	7	48 56
Indian Petrochemical to build unit in Guajarat using CE-Lummus technology	Sopt	3	50
to produce polymer-grade ethylene . R Japanese plant plans cut in half N Liquid-feed cracking for ethylene	Oct Dec Nov	14 2 11	38 51 41
Netherlands: Dow names contractor for second unit at Terneuzen R	Oct	7	43
Pakistan plant to be built by Lurgi N Peroxy initiators reduce cycle times	Aug	5	80 53
Puerto Rico Olefins gets giant "C2 splitter" for Penuelas, P.R., plant	Oct	28	21
Russia to launch big petrochemical project with U.S. technology	Dec	16	15
Shell plant for France likely N Singapore seeks plant N	Sept Sept	16 23	18 39
Spain's Calvo Sotelo plans to expand capacity to meet nation's rising demand Spanish plant at Tarragona N	Aug Nov	5 18	84 73
shelved	Dec	9	7
vatives complex in Izmir planned N Aug 5-79, Aug 12-16 N UC adjusting ethylene derivative prices N	Oct	14	35
UC adjusting ethylene derivative prices N Ethylene Glycol – Japanese ethylene plant plans cut in half N	Sept	16	58
Ethylene Oxide	Dec	2	51
Japanese ethylene plant plans cut in half	Dec	2	51
with EO process	Nov Dec	11 16	41
Shell plans more oxide growth Teijin develops new approach to making	July	29	19
polyester for fibers N Ethylene Propylene Terpolymer — Poly- styrene modified with EPT will be mar-	Nov	25	27
keted by Mitsui N 2-ethylhexanol – Ciquine Petroquimica		2	43
plant at Salvador, Brazil N Europe	Aug	5	79
Antwerp-Rotterdam delta area faces ammonia glut as big plants start up			
BTX capacity boost (chart)	July Aug	12	15 7
Detergent production in Eastern and West- ern Europe will nearly double by '80 N		21	31

Europe hampers giants says G. Agnelli ! European Common Market's antitrust regulations gains respect from sales	Dec	9	13
	July	1	28
European profit parade (table)	Oct	14	37
	Oct	21	32
Melamine markets reeling under impact of new capacity and processes N	Aug	5	60
ment N	July	29	28
Private consortium in nuclear fuel pro-	Nov	18	114
Sulfuric acid makers gearing up to handle more solid sulfur	Oct	7	37
Natural gas companies propose pooling	Oct	7	17
Explosions			
Allied's fire and explosion at Baton Rouge, HDPE plant not determined . N Du Pont files suit against Matador Chem- ical for damages to Sabine River Works	Sept	2	18
caused by Matador explosion N Hercules' Radford, Va. explosives powder	July	22	10
plant explosion investigated N Humble's Linden, N.J. blast alters supply	Sept	9	10
	Dec	16	17
	July	1	18
sion	Aug	26	18
the plant	July	1	16
severely damaged by explosion and fire will phase out operations N	Aug	12	6
Explosives			
ICI acquires U.K. subsidiary of Ireco Chemicals	July	22	38
discontinued at Du Pont's Barksdale,			
Wis., plant . , N	Aug	12	21
Exports			
BTX capacity boost in Europe and Japan will cut U.S. exports (chart)	Aug	12	7
Burlington's Lynn says old rules hurt trade	Dec	23	16
Canada and Communist China establish	Oct	21	73
diplomatic relations N Canadian NGL for U.S. approved Chemical exports rose in May	Sept July	9	17 20
Commerce Dept. figures for eight-month	Oct	7	17
import-export volume		5	35
East-West trade	Aug	3	35
Moscow show helps some outsiders sell chemicals, technology	Sept	30	26
Japanese benzene producers' efforts to crack the U.S. market apparently unsuccessful; trade mission with-	h.h.	16	66
draws offer	July	15	
Chinese Communists demands Japanese textiles	July	22	38
Japan eases textile stand, changing out- look of U.S. trade bill	Nov	4	14
Japanese to push chemical plant exports	July	1	16
to Latin America and Eastern Europe N Lake Erie bridge would be an aid to	Sept	23	39
Steel outlook: good – but no records .	Oct	21	24 19
Swedish exports drag	Dec	23	16
foreign industry competition	Oct	7	16
Trade quotas only spell trouble – View-	Aug	5	5
U.S. chemical exports' surplus over	Aug	5	24
imports rose in June	July	8	31
Expositions ACHEMA extra: final coverage of world's			
biggest equipment show	July	1	11
Furniture Supply Fair: Plastics make it big in furniture (table)	Sept	30	22
Japan: Chemical Plant Engineering	Sept		28
Exhibition; Chemshow Japanese style Moscow's chemical show: Japanese, West and East Germans plan large exhibits, but			
and East Germans plan large exhibits, but U.S. participation will still be light	Aug Sept	26 23	29 39
Show chalks up \$2 million in sales	Sept	30	26
Chicago — exhibit space R	Oct	14	22
Extrusion			
Integrated process for the manufacture	Aug	5	25
of basic extrusion-grade acrylics Momouth Plastics will increase ex-		5	27
trusion compounding capacity R Eyeglasses — Bausch & Lomb to seek	Aug	9	21
approval to market Sofiens hydrophilic contact lens	July	22	34

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Fatty Acids			
Polyester-cotton blends and straight polyester fabrics may force reformu-			
lation of heavy-duty detergents N	Nov	18	100
	Aug	12	21
Federal Power Commission Asked to delay natural gas hike till			
shortage is determined N Chief Nassikas: May be necessary to	Sept	16	17
curtail gas service to make do	Sept	2	25
Louisiana Gov. McKeithen lays the blame for natural gas shortage on FPC			
Pricing	Dec	2	22
pleas for assistance	Sept	30	15
pricingN	July	29	23
Federal Trade Commission			
Complaint charges that Chemway misrep-			
resented the antibacterial property of Dr. West's "Germ fighter" toothbrush N	Dec	16	24
Enzyme detergents advertising claims hit by FTC N	Sept	30	11
FPC asked to delay natural gas hike till shortage is determined	Sept	16	17
shortage is determined N Kirkpatrick, Miles, 43rd chairman: 'Phila- delphia lawyer' may be what FTC			
needs	Sept	16	22
concentration in the chemical in-			
dustry planned Oligopolies to be investigated: chemical industry is one of "Big Six" N Fertilizer Institute — Financial fact sheet	Sept	9	16
industry is one of "Big Six" N	July	22	23
shows fertilizer losses are shrinking N	Dec	23	40
Fortilizors			
Australia: Dow, Swift and ICI of Australia may merge Australian invest-			
ments	Nov	18	38
officials deny that proposed merger			
of their nitrogenous fertilizer opera- tions will raise prices to farmers N	Dec	2	51
Australian producers protest elimination	Nov	11	38
Chinese to import fertilizer from Japan N	Sept	9	56
Escambia boosts output	July	15	26
losses are shrinking N First industry-wide fertilizer financial	Dec	23	40
data: a whopping loss (chart)	Oct	7	15
Grace documents fertilizer price-cost gap by systems analysis (chart & tables) Hungary: Coppe-Rust's third plant N	Sept	2	92
Indian government approves four fer-	Aug	5	80
tilizer projects that will increase	Aug	5	84
ICEC's Emil Finley, president: This Eng-			
U.S.	Aug	19	110
Iranian petrochemical fertilizer complex at Bandar Shahpur dedicated N	Nov	11	39
Manila: Esso's fertilizer plant may be	July	8	31
Mexicans get alumina and mixed fer-	July	29	31
Monsanto sells "agricultural centers" in	July	25	31
Monsanto sells "agricultural centers" in Ill. and lowa, and ammonia terminals in lowa and Neb. to FS Services Inc. N	Nov	18	99
'71-'72 sales are expected to be better	Oct	28	18
Pennzoil's process to make potassium			
polyphosphates as ultrahigh-analysis fertilizer	Sept	9	55
Russia plans to double its fertilizer out- put in the next five years N	July	29	27
Sales show their best growth in nearly	July	8	27
TVA presents a new idea for use of by-		14	41
product ammonium sulfate N U.S. industry would be further "disad- vantaged" if proposal to revamp oper-	Oct	14	41
vantaged" if proposal to revamp oper- ations of AID is put into effect	Nov	18	43
Year-end report: volume up, but profits	Aug	12	24
Zambian plant: boost for coal – letter . Fertilizers see also individual fertilizers;	Sept	16	5
Ammonia, Nitrogen, Phosphate etc.			
Fibers			
Acrylic fiber capacity of Cyanenka's plant in Barcelona increased R Air sefety bags: four man-made materials	July	8	33
Air safety bags: four man-made materials		23	11
under consideration N America's Cup series marks first use of boron-graphite composites in sailing	Sept	23	11
boron-graphite composites in sailing yachts, joining chemical old-timers			
titanium and polyester	Sept	9	48
Werke	Dec	23 11	31 27
German Phrix-Werke will close its plants	Nov		
at Krefeld and Okriftel N Graphite fibers plant to be built at Bac-	Oct	14	35
citas, otali not bowing orear, ma. by	July	8	39
Herculon olefin fibers: Hercoform moves	Dec	16	15
Home-sewing market gets push from			
fiber makers	Sept	2	24

Japan's fiber and textile makers are			
mapping sizable expansions (table) Japan's synthetic fiber industry faces	Sept	2	85
Makers lay off thousands as their market	Oct	7	19
Monsanto and Toray Industries plan	Oct	30	17
entry into wig makert	Sept	12	15
close due to low profitability N Polyester-cotton blends and straight polyester fabrics may force reformu-	Aug	12	13
lation of heavy-duty detergents N Polyesters see Polyesters	Nov	18	100
Polypropylene see Polypropylene Portugese plants planned	Oct	14	38
Sales increases as a result of flag boom . Self-destructing synthetic fibers? Scott of	July	29	36
Univ. of Aston working on the project	Dec	9	49
Turkish joint-venture polyester plant	Oct	7	43
	Oct	14	41
cess developed by Monsanto N Film – GAF agreement makes its film the "official film" for Disney market	Sept	23	17
Filters — Co-spun polypropylene tilter	Sept	23	46
material — ACS meeting Filtration — Centrifuges — report. Kenneth Brooks	Sept	16	33
Financial			
Abbott: nearly \$2,4 million in cash pro- fit-sharing checks go to eligible em-			
ployees N AKZO's sales and earnings N Sept 2-81 R	Dec Dec	9	7
Akzona, Inc.: new enterprise checks in with \$360-million assets	Oct	7	18
Albright & Wilson's sales and earnings American Cyanamid: higher sales, lower	Dec	9	12
earnings	Dec Oct	9	7
AICPA accountants are changing the rules on mergers and acquisitions	July	8	16
AICPA drops controversial "size test" for permitting the pooling-of-interest			
method of merger accounting N ARCO: A chemical arm with lots of muscle	Aug	12	6
Atlantic Richfield's sales and earnings . N Auto sales down 45%, chemical suppliers	Sept	21	17
are hurting, too	Oct	14	21 35
BASF bond issue N BASF executives tour U.S. operations: company re-evaluating worldwide in- vestment program, no major acqui-	Oct	14	30
stions plans seen	July	22	18
'70	Aug	12 18	15 73
Payments balance off	Aug	5	24
Second-quarter U.S. balance of pay- ments N	Aug	26	20
Bayer's sales and earnings for first half	Nov	11	39
of '70 N Bear market has some advantages for	Sept	2	81
chemical companies Black-owned Ascension Chemical: a chemical industry first	July	1	25
British chemical industry investments will	Nov	11	28
increase about 28%	Aug	12	15
Shell exports N British Oxygen's sales and earnings N July 1-31,	Dec	23	18
Building is down, auto sales up — F.W. Dodge report (charts)	July	8	17
Buyers predict upturn Canada: Economic slump stunts chemical	Dec	16	18
growth (tables)	Nov	25	33
four biggest chemical companies Capital appropriations by the 1,000	Aug	12	16
largest manufacturing companies in the U.S. held steady in the second quarter			
says NICB	Sept	9	20
Celanese will buy up to 500,000 shares of	Nov	4	18
its common stock	Aug	19	17
business conditions in second-half '70 N Chemical distributors wrestle with	July	29	24
sliding sales and profits (charts) Chemical exports and imports rise	Oct July	28	31 20
Chemical plant and equipment invest- ment — Commerce Dept. survey N	Sept	9	9
Chemical prices cling to the floor, but costs hit the ceiling (chart)	Nov	18	41
Letter CPI business slump bottoms out N	Dec Aug	16	60
Chile: Are U.S. companies facing nation- alization under Allende?	Oct	21	77
Citibank Chemical Exchange: chemical marketing and purchasing men turn	fasts	0	28
thumbs down N Coal shortage chills chemical profit hopes (chart)	July	21	28
Commerce Dept. mid-year study: Mid-year optimism	Aug	26	18
Cosden: You can be small and profit-	Dec	20	48
Courtaulds predicts profit decline N Courtaulds' sales and earnings first	Nov	25	32
Crown Zellerbach's president Dahl pins	July	22	39
'71 earnings to improved building outlook	Nov	25	14
DISC' plan: export now, pay income			

taxes later (table)	Aug	5	35
tained earnings are cut (table)	Dec	23	13
appraisal of chemical tags N Dow Unquinesa's sales and earnings N Du Pont's economist C. Reeder sees	Sept July	2	17 32
brighter economic prospects for '71 . N	Nov Oct	25 21	9
Du Pont's sales and earnings , N Du Pont Swiss bond issue funds will be used to expand operations in Europe N	Aug	26	28
Economy's pace picking up: McGraw- Hill's Economics Dept. study (table)	Aug	19	24
Elcor's Rock House sulfur-from-gypsum plant progress	Nov	4	63
Plant to close; company asks ASE to suspend trading in Elcor	Nov	18	42
Elcor considering three options in effort to alleviate financial plight caused by its problem-plagued sulfur			
venture	Dec	9	41
outlook and problems for '71 N ENI sales for first-half of '70 N	Oct Aug	21 19	17
Esso Overseas Finance stock offering . Fi	Sept	2	28
Europe hampers giants says G. Agnelli Fl's financial fact sheet shows fertilizer	Dec	9	13
losses are shrinking N Fertilizers, first industry-wide financial	Dec	23	40
data: a whopping loss (chart)	Oct Dec	7 23	15
Foote Mineral's Chairman Bliss sees	Nov	18	44
Foreign investment: Here's what the pro- cess industries are investing abroad — McGraw-Hill Economics Dept, survey			
(table) Foreign investment: U.S. mandatory controls on foreign investments not working – survey of major U.S. com-	Aug	12	11
panies by the U.S. Council of the International Chamber of Commerce	Aug	5	26
GM reports third-quarter '70 net loss be-	Nov	4	9
Germans lose ground, but still lead European profit parade (table)	Oct	14	37
Germany, West chemical capital spending climbed 45% in '69 N	Aug	13	15
Germany, West: profit squeeze tightens . Germany's "Big Three" are spearheading the West German expansion thrust:	Oct	7	42
firms plan worldwide expansion; major projects (tables) Germany's "Big Three" will probably budget less for new plants and ex-	Sept	23	29
pansions in '71 N Goodrich's sales expansion	Dec Oct	16 14	37 20
Grace common shares upped to 50 million	Sept	23	19
Grace documents fertilizer price-cost gap by systems analysis (chart & tables)	Sept	2	92
Grace is offering the public a chance to invest in its specialty chemicals busi-	Dec	2	14
ness; establishes Chemed Corp N Great Britain: Shell revising original cost estimates of its five-year oil and chemi- cal refinery expansion program due to	Dec		
inflation	Sept	9	56
elections: the impact on business GNP: slight rise may signal economic	July	1	14
GNP \$1-trillion; GNP clock, an electronic device ticks off the growth of the	July	29	15
economy	Dec Oct	23 7	14 19
Hoechst bond issue to finance expansion	Oct	14	35
Hoechst sales and earnings for first half of '70 N	Aug	19	31 24
Eight months sales and earnings N Sales in '70 N	Sept	30 21	73
Hoffmann-La Roche's sales and earnings	July	8	31
Hoover Ball and Bearing Co. – Self- help means more profit	Oct	21	23
Huel's sales and profits N July 8-31 R ICI's North American operations sales	Dec	23	18
and earnings in '69	Sept	30	24 12
ICI's sales and earnings N Sept 16-18 ICI will borrow \$96 million N ICIANZ's sales and profits; Australian	Dec	16	37
Fertilizers incurred a loss	Dee	16	40
N July 8-32	Dec	9	13
will last into '71 N IMC's earnings for fiscal year R IMC aiming to increase earnings N	Sept	30 12	11
Inventories, sales up — Commerce Dept.	Oct	14	13
report Investment survey on impact of high rates and tight money on new plant	Sept	23	18
rates and tight money on new plant and equipment investments N Italian government increases its stake		23	10
in Montedison	Nov	4	49
foreign investment rules will be lib- eralized on Sept. 1	Aug	26	14
eralized on Sept. 1 Japan's chemical industry will spend nearly \$2 billion in fiscal '70 N Japan's Petrochemical Industries Assn.	Nov	25	32
wants to ban foreign investments in			
five key petrochemical derivatives N Laporte Industries' sales and earnings	July Dec	29	12
Lilly's capital outlay this year may reach \$85 million	Nov	11	13
Lilly's sales and earnings first six months of '70	July	15	
Liquidity: chemical companies make their			

money work harder	Nov	4	13	flation' (tables)	Nov	4	51	Urethane: foamed-in-place rigid urethane wins okay for structural and insulation			
goal of outpacing both industry, economy	Sept	23	17	keep growing at a faster rate than that of the industry as a whole	Dec	23	16	Urethane foam insulation for recreational	Dec		20
MCA 20th semiannual meeting: draws a bead on environment, productivity and				U.S. health expenditures will likely increase about 12%/year for the next				vehicles market	July	15	56
Mitsubishi's six-month sales and earnings N	Dec Sept	23	21 39	five years	July Sept	16	10 65	expansion plans (tables)	July	8	13
Monsanto's Bock figures layoffs will help	Oct	7	43	U.S. petroleum companies face chemical slowdown (chart)	July	22	15	Canada bans all food containing cycla-			
to trim costs \$20 million in '71 Monsanto's sales and earnings	Dec	23	15	We will shed few tears for '70 - View- point	Dec	23	5	Carrageenan plant in South Portland,	Sept	2	17
N Oct 14-13	Nov	25	9	Wilmington, Del., security analysts see hopeful signs for '71	Nov	25	15	Me., acquired by Stauffer R Cereal: Senate investigation of breakfast	July	8	20
may be down 8-10% N NICB reports capital appropriations by	Dec	2	13	Finland				cereal nutrition and advertising (table). Cereal makers defend products	Aug Sept	19 30	27 16
country's 1,000 largest manufacturers rose 8% (to \$7,02 billion) in third-				Phthalic anhydride plant based on BASF process	Sept	16	25	FDA proposes ground rules for safety re- view of more than 600 foods and food			
quarter '70	Dec	9	14	Subsidiary to produce hydrogen peroxide and organic peroxides	Aug	12	16		Dec	16	24
'71 business outlook - McGraw-Hill Economics Dept	Nov	18	43	Finley, Emil president of ICEC: This Englishman found the going easier in	riug		10	kinds of future foods	Aug	12	32
1971 outlook: prospects are bright for chemical-consuming industries	Oct	28	18	U.S	Aug	19	110	tion of processed foods and federal standards for such products sponsored N	Sept	2	32
Northern Natural Gas stock offering . R	Oct	28	21	Correction – letter Fire Retardants see Flame Retardants	Sept	9	5	Task forces will hold hearings on lack of			
	Nov	18	38	Fireproofing — Sprayed asbestos for fire- proofing faces restrictive legislation	Sept	16	62	a national nutrition policy N Test for excess mercury in canned tuna	Sept	16	18
Operating rates are slipping – McGraw- Hill Economics Dept, report (table)	Nov	4	18	Fires				Third International Congress of Food	Dec	16	24
PPG Industries' sales and earnings N Pechiney-Saint Gobain's first-half sales .N	Oct Aug	21 12	17 15	Allied's fire and explosion at Baton Rouge, HDPE plant not determined . N	Sept	2	18	Science and Technology survey shows 2/3 of food Americans consume in '85			
Petrofina plunging deeper into petro- chemicals (chart)	Dec	2	47	Mobil's Beaumont, Tex., refinery and chemical complex fire caused by				will be in forms and derived from sources not familiar to the public			
Plant sites report, J.M. Winton (charts, tables & maps)	Aug	19	74	UC takes steps to prevent another olefin	Sept	30	15	today N Washington conference emphasizes con-	July	22	34
Politics: the fine art of giving (table) Pollution control spending survey: who,	Oct	28	41	complex fire	Sept	23	18	sumers' concern with federal regu- lations	Dec	23	18
when and how much (table) Productivity: newly appointed commission	July	8	23	destroyed distillation section of the	July	1	16	Food Additives			
to promote productivity	July	22	15	Witco's Franklin, Pa., refinery that was severely damaged by explosion and fire				Cereal: Senate investigation of breakfast cereal nutrition and advertising			
debentures R July 8-20 R Raw-material price drops won't mean	Aug	5	27	will phase out operations N Fires see also Explosions	Aug	12	6	(table) Cereal makers defend products	Aug Sept	19 30	27 16
much while other big operating costs keep rising (chart)	July	22	13	Fish				FDA proposes ground rules for safety review of more than 600 foods and food			
REA Express in financial troubles N Reichhold: On the recovery road	July Nov	1	19 91	FPC: Japanese company is interested in				additives	Dec	16	24
Research: government-supported basic research may get additional funding	1404			taking half of Canso, N.S. plant outputN	Nov	4	49	over Aug 19-26	Dec	23	18
next year	Oct	28	20	Mercury: test for excess mercury in canned tuna will begin this week N	Dec	16	24	Food & Drug Administration Cereal: Senate investigation of breakfast			
and cost of support facilities going up	Labor	22	30	Flags — Synthetic fibers, dyes, polymer coatings and plastics are among chemical				cereal nutrition and advertising	Aug	19	27
rapidly (chart) Russian chemical industry shares top pri-	July	22	30	industry products aided by booming demand for flags	July	29	36	(table)	Aug Sept	30	16
ority in the '71 industrial investment budget	Dec	16	37					Clinical research crisis, so essential to new- drug development, seen as a result of	0	21	00
Sales and earnings First-half '70: early returns, mixed	July	22	19	Flame Retardants Competition in flame-retardant urethane				new rule	Oct	21	88
First half '70: Many process firms suffer sharp setbacks (tables)	July	29	13	insulation systems is heating up N FMC entry in flame-retardant vinyl plas-		28	27	products is cutting down time that over-burdened clinical researchers can			
First-half: there are some signs of im- provement	Aug	5	23	ticizer market		28	28	spend on testing new drugs	Dec	2	39
First-half '70 was great for producers of nonferrous metals, and it was good				sleepwear proposed		25	16	licensed veterinarians to reduce acute swelling associated with trauma in			
for makers of pharmaceuticals (table)	Aug	12	13	fire-resistant insulator N Paints and foams to protect airplane	Dec	2	44	horses N Drugmakers to buck labeling action	Aug	12 28	33 21
Strikes, low fiber prices dim chemicals' last-half '70 outlook (charts)	Sept	23	15	passengers from on-the-ground fuel fires following a crash	Oct	21	26	GRAS food additives to get FDA going-	Dec	23	18
Third-quarter profits tailspin, but firms see a bright future (table)	Oct	18	19	Floors — Seamless floors: Contractors and suppliers seek to rebuild a sagging				over Aug 19-26	Dec	9	14
Nine-month sampling show some winners N	Nov	4	9	market	Nov	18	96	Lower tolerances for residues of DDT on 53 agricultural products N	Dec	16	24
Third-quarter profits: poor showing dashes early recovery hopes (tables) .	Nov	11	18	nonane) plays a key role in a new lithium flotation process		2	90	Mouthwashes: producers have 30 days to substantiate label claims that their	-		
It was a slow third quarter (table) Nine-month chemical company reports N	Nov	18	43 13	Flufenisal – Aspirin: Merck tests new pain killer, flufenisal, aiming at a "super-				products have germ-killing power Makers change formulas in wake of	Aug	12	10
Sandoz's sales and earnings for first six months '70 N	July	29	27	aspirin"	July Sept	15 30	51 5	FDA crackdown	Aug	19	24
Searle, G.D. stock offering R SEC decrees more revealing financial	Sept		28	Fluorocarbons	ООР	00		suits within the next three weeks N Nasal sprays: Plans to ban 15 such com-	July	15	20
reports are required	Nov	18	43	Air Products' field testing about 15	Cons	2	90	bination drugs from the consumer	Sept	2	28
Soc. Italiana Resine's sales and earnings		7	19	cyclic fluorocarbons	Nov	4	24	Rules governing antibiotics in animal feeds probably will not change much N	Oct	21	88
for 1969 N Spain: foreign investment rose 12% in		22	39	Prices	Oct Oct	14	27 20	Saccharin ban reports "inaccurate"	Oct	7	19
'70's first half	Aug	5	79	Fluoroplastic — Pennwalt will double out- put of Kynar at Calvert City, Ky., com-		-	07	Safety review of more than 600 foods	OCI	,	15
group, a new forecasting tool helps companies utilize capital	Nov	4	15	plex	Aug	5	27	and food additives – ground rules pro- posed N	Dec	16	24
Stauffer sees opportunities for growth in solving problems (chart)	Oct	14	49	to technology for making hydrofluoric acid from fluosilicic acid or fluorspar . N	Nov	25	27	Test for excess mercury in canned tuna fish will begin this week N	Dec	16	24
Stocks: SEC aims to curb repurchases. Purpose: to prevent manipulation	Aug	5	27	Fluosilicic Acid — Chemico obtains BUSS rights to technology for making hydro-				Washington conference emphasizes con- sumers' concern with federal regulations	Dec	23	18
Stocks: Three more process industries companies buying their own stock at				fluoric acid from fluosilicic acid or fluorspar	Nov	25	27	Food & Drug Law Institute — Washington conference emphasizes consumers' con-			
low prices	July	8 22	9	Foam				cern with federal regulations Forging — Powder metallurgy: hot-forging	Dec	23	18
Sumitomo Chemical's sales could reach \$1 billion/year by '73	July	1	18	All-terrain vehicles, industrial equipment ride on special tires	July	8	36	of preformed parts discussed at third International Powder Metallurgy Con-			
Six-month sales and profits N SST may get a reprieve N	Aug	12 16	15 24	ANIC will use International Synthetic Rubber's agglomeration process at				ference	July	22	29
Tariff Commission funds for publishing chemical and plastics' production and				Ravenna plant	R Oct	14	38	Formaldehyde Bayer building plant at Uerdingen, W.			
sales statistics may be cut off N Prospects improving for continued	Sep	t 16	58	makers	Oct	14	33	Germany	Sept	2	85
publication	Oct	14	28	tect airplane passengers from on-the- ground fuel fires following a crash	Oct	21	26	housing; capacity expansion (table) Capacity increases planned by Monsanto,	Sept	16	59
curb	Dec	16	16	Foamed aluminum can be sawed, milled, turned or foamed into diverse shapes. It				Borden, Georgia Pacific, Hercules, Cela-	Δ		17
Toray Industries sales and earnings for fiscal year	July	22	39	Foamed sodium silicate is an effective				nese and Du Pont	Aug Nov	5 25	17
Transcontinental Gas Pipe Line stock offering			18	fire-resistant insulator	N Dec Sept	30		Fragrances - Rhodia's new route to fra- grances: catalytic reactions convert iso-			100
Turner & Newall's sales and earnings Union Carbide may spin off all or part			12	Hoover B&B's Reynolds Chemical Pro- ducts Div. producing new series of				prene to terpene chemicals	Nov	18	109
of its oil and gas holdings N UC renews revolving credit agreement			14	liquid urethane foaming systems ICI process injection-molds stiff plastic	Oct	21	23	Chemical industry in position to challenge			-
with 23 banks	Aug Oct		27 13	over foamed core; auto market is first target				Europe's leaders (map, table) Chemical production increased 12.5% in	Sept	9	57
Union Oil will market \$100 million in six-year debentures	l July	y 8	20	Solid foam bumper in '71 cars	t Aug			the first five months in '70		5	79
U.K. chemical industry fights 'stag-				in roofing	N Nov	4	24	gum	July	8	33

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ICI plans polyethylene plant at Fos, near											
	Das	9	20	Gasification Coal gasification to make pipeline				FRP tank made in one big piece	Aug	5	25 16
Marseilles N Nov 11-39 N Polyisoprene synthetic rubber plant near				gas has to come in the U.S. says IGT's				Japanese plant	Aug		
Le Havre planned N Renault auto plant in Colombia: new pat-	Oct	28	14	H. Linden	Dec	23	23	either way	Aug	26	12
tern for foreign investors? N	Aug	5	80	up to develop a low-cost, direct sub-				up to a bright outlook for g-f producers	Oct	28	20
Rhone-Poulenc hydroquinone and pyro- catechine plant near Lyon R	Oct	7	42	stitute for natural gas from coal N Kentucky envisions commerical plants	Dec	23	23	PPG introduces Triana, a family of glass-fiber yarns	Aug	5	27
Shell's cumene plant near Bordeaux				for coal-to-gas conversion	Oct	28	20	PPG says "second-generation" glass-	riug	9	21
R Sept 2-85	Sept Sept	16 16	18 18	Gasoline				fiber tire cord will open new mar- kets	Aun	26	27
Solvay plans chloromethanes plant at				Chevron uses polybutene amine F-310,				Peru's growing glass-fiber fishing			
Tavaux complex	July	22	38	to cut auto exhaust emissions; FTC dis- putes advertising claims (chart)	Oct	7	46	fleet	Nov	4	16
Propil's plant B	July	8	33	Lead: Gulf Oil introduces low lead con-		,		with glass fibers	Oct	7	16
Ugine Kuhlmann regroups units Vacuum salt plant planned R	Aug	5 22	84 38	tent gasoline	Aug	19	27	Plastic-hull target boats for U.S. Navy	Sont	16	25
	July	44	30	Ethyl Toyo at Yamaguchi may be de-				Glycol – Dow to build Australian plant	Sept	10	20
Freight Rates Canadian potash shipments moving be-				layed if efforts to change shipping rules are unsuccessful	July	29	18	for propylene and polypropylene glycol ethers	Oct	21	26
tween Saskatchewan and Vancouver get				rules are unsuccessful	Dec	2	19	Glyoxal - Prices N	Dec	2	35
new rates N Chemical shippers may face freight strikes	Nov	18	99	Lead-in gasoline: California Senate kills a bill to phase out lead compounds				Gold — Recovered from dilute aqueous solutions by new technique N	Sent	30	31
and rate hikes (chart)	July	15	25	from gasoline sold in the state by '77 A	Sept	2	28		oopt	00	
Rail costs cause companies to divert shipments to barges and expand				Lead-in-gasoline and the law: U.S. Commerce Dept. panel recommenda-				Graphite America's Cup series marks first use of			
truck fleets	Oct	14	17	tions for limiting lead-in-gasoline; new clean air bill may sharply re-				boron-graphite composites in sailing			
may lose customers	Sept	2	25	strict the government's powers to				yachts, joining chemical old-timers titanium and polyester	Sept	9	48
Get rate increase from ICC, but hike is subject to refunds	Nov	11	14	regulate lead	July	15	80	Hercules plant at Bacchus, Utah, not at	lede	0	39
Request for rail-freight-rate hike causes				gasoline capacities at Robinson, III., re-				Bowling Green, Md N Grass - Grass to reseed vital tundra	July	8	39
shipper concern	Dec	9	11	finery	Oct	21	26	ground on Alaska's North Slope N	Nov	18	38
auto enginesN	Aug	26	33	out	Sept	23	18	Great Britain			
Fuel				Phillips Petroleum offers a regular-grade gasoline of low lead content N	July	8	9	Britain's Dunlop and Italy's Pirelli will "consolidate interests"	Dec	16	16
Boron-based product kills bacteria in				Waste reprocessing: doomed by lead-free	July	0	5	BP's Wulff process acetylene plant	Dec	16	10
fuel oil tanks	Aug	5	53	gas? Process changes at refineries may hurt profitable spent caustic to				closing down ahead of schedule N Chemical industry fights 'stag	Dec	9	49
Coal shortage chills chemical profit hopes				cresylic reprocessing	Dec	23	33	flation' (table) Chemical industry investments will	Nov	4	51
(chart)	Oct	21	21	Generators				Chemical industry investments will increase about 28% N	Aug	12	15
visions commercial plants	Oct	28	20	"Magnetic bottle", Tokamak, may be				Conoco's U.K. refinery at Immingham			
Evaluation of a process to produce ash- less low-sulfur fuel available from				key to controlling fusion reaction	Dec	23	27	contract price to be boosted N Cost of importing certain key products	Aug	19	97
GPO	July	1	19	Undersea generating station teasibility	500	2.0	2.	could go up if country joins the			
Fossil fuel supplies tighten, accelerating nuclear power growth	Sept	16	21	study to be made by General Dynamics N	July	22	34	Common Market	Aug	19 22	31
Heavy-fuel desulfurization plant in South	oopt			George, W.H. Krome – Alcoa puts an			45	Strike hurts ICI sales and Shell ex-			
Portland, Me., awaits approval N July 29-11 N	Aug	5	18	Germanium – GE R&D Center develops	July	1	15	ports N Strike called off N	July	29	27 18
Petrochemical producers face raw material				"purest" germanium N	Oct	28	35	ctnyl chloride plant	Dec	16	42
feedstock shortage N Power study spells out the obvious – the	Sept	23	11	Germany				Hiff: Warns of need for prompt action to check slide of British chemical			
need for more	Oct	7	18	Aluminum oxide plant	July	22	38	industry	July	15	32
Fuel Cells				Ludwigshafen still sought N	Aug	26	28	ICI will build terephthalic acid plant at Wilton, Teesside	Sept	2	85
Allis-Chalmers dropping fuel cell busi-	Dec	23	10	Bayer building formaldehyde plant at Uerdingen N	Sept	2	85	Labor laws designed to cut down	Oct	14	35
ness N Fuel cell that operates on human blood,	Dec	23	10	Bayer's chlorine plant at Dormagen	Nov	4	56	Oxygen unit for British Steel's Anchor			
and might power an artifical heart,	lube	8	40	"Big Three" are spearheading the West German expansion thrust: firms plan				Profits drag	Sept	9	85 12
demonstrated N Mercury discharges face tighter limits as	July	0	40	worldwide expansion; major pro-				"Self-destruct" plastic container process			
U.S. moves to ban discharges by in- dustry in 17 states	July	22	35	jects (tables) "Big Three" will probably budget less for	Sept	23	29	developed by Univ. of Aston N Shell revising original cost estimates	July	29	34
	odiy	44	00	new plants and expansions in '71 N	Dec	16	37	of its five-year oil and chemical refinery		_	
Fungicides Mercury seed treatment row; Nor-Am				East Germnay orders ethylene plant . N Germans lose ground, but still lead	Aug	5	80	expansion program due to inflation . N Tax scheme turns industry off	Sept	9	56 74
wins injunction against suspension of		00		European profit parade (table)	Oct	14	37	Tory victory: the impact on business	July	1	14
Panogen July 22-27 Paint fungicides: nonmetallics may paint	July	29	16	employ Kellogg technology Sept 16 23,	Sept	30	28	Waste hassle	Nov	25	31
mercury into a corner	Oct	21	83	Kellogg awarded export license to pro- vide basic technology for two fertilizer				with potassium sulfate shipment	Dec	9	45 43
Pesticides report by the U.S. Tariff Comm, underscores the obvious: some				ammonia plants in East Germnay N	Sept	9	56	Greece - Sulfuric acid plant	OCI	,	40
of the old-time bug-killers have just	A	12	0	Methanol unit near Manheim, W. Germany N	Nov	25	32	president: He brings a global view to the	Sept	2	106
about had it	Aug	12	9	Phrix-Werke will close its plants at				presidency	sept	2	100
in paints	Sept	23	49	Krefeld and Okriftel N West German chemical capital spending	Oct	14	55	Gum Rosin prices N	July	15	66
Furnaces				climbed 45% in '69 N	Aug	12	15	Xanthan gum to be produced at Melle,			
Coke ovens: a major source of coal-tar	Sept	2	21	West German plastics consumption slowing down	Dec	9	39	France, fermentation plant R	July	8	33
chemicals for years to come (charts) Isobutane-cracking furnaces — letters	July	29	5	West Germany: Hoechst's Gendorf VC	Dec	9	55	Gum			
Furniture - Plastics make it big in furniture (table)			20	plant will switch to oxychlorination process employing only ethylene N	Oct	7	48	Hunting for profits: guns, ammo, bows, arrows are good business	Oct	28	37
Fusion - "Magnetic bottle, Tokamak, may	Sept	30	22	West Germany's labor pot boiling				Remington Arms' vice-president and	000	20	0,
be key to controlling fusion reaction	Dec	23	27	again	Oct	14	35	general manager Philip Burdett: He's no marksman, but he calls shots for top			
				measures could mean tighter profit				gun firm	Oct	28	56
				squeeze for chemical companies N West Germany's profit squeeze still	July	15	73	Gymnodinium breve — An important clue to the formation of red tide turned			
_				tightening	Oct	7	42	up	Dec	2	43
G				West Germany's sulfur capacity slated for expansion	July	22	24	Gypsum – Elcor's Rock House sulfur-from- gypsum plant progress N	Nov	4	63
					,		-	Plant to close; company asks			
Gas Chemetron's National Cylinder Gas				Aromatics complex	Sent	2	87	ASE to suspend trading in Elcor	Nov	18	42
division air separation plant				CPI plants planned	Sept	2	87	effort to alleviate financial plight			
near Houston, Tex	Aug	26	18	Phenol plant planned R	Sept	2	87	caused by its problem-plagued sulfur venture	Dec	9	41
				Glass							**
hauled up on conspiracy	Sept	9	17	Barex 210 glass substitute descrip- tion N July 8-39, N	July	29	33				
hauled up on conspiracy charges		7	42	Corning Glass offers machinable		-					
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands R	Oct			glass ceramics and porous silicates	Oct	14	42	н			
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Fluorocarbon propellant gas producers		14	20				-				
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands R Fluorocarbon propellant gas producers strike back at critics Chana's cryogenic gas plant R	Oct	14	20 87	Industry's new program to redeem glass							
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands R Fluorocarbon propellant gas producers strike back at critics Ghana's cryogenic gas plant R Nerve gas: no evidence of leaking from	Oct Sept			bottles and recycle them through	July	15	30	House William (Rilly)			
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Fluorocarbon propellant gas producers strike back at critics Ghana's cryogenic gas plant Reve gas: no evidence of leaking from old cargo ship sunk in the Atlantic. N Nerve gas disposal bugs Army.	Oct Sept	2	87	bottles and recycle them through furance and bottle-blowing plants Safety glass windshields for '71-	July			Haynes, William (Billy) — Obituary	Nov	25	12
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Return propellant gas producers strike back at critics Chana's cryogenic gas plant Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic Nerve gas disposal bugs Army Radioactive krypton and xenon can be	Oct Sept Nov	2	10	bottles and recycle them through furance and bottle-blowing plants		15 30	30 17	Obituary	Nov	25	12
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Recommender of the services strike back at critics Chana's cryogenic gas plant Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic Nerve gas disposal bugs Army Radioactive krypton and xenon can be removed from nuclear power plant off-assed by new system	Oct Sept Nov Aug	2	10	bottles and recycle them through furance and bottle-blowing plants	Sept			Obituary			
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Fluorocarbon propellant gas producers strike back at critics Ghana's cryogenic gas plant Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic Nerve gas disposal bugs Army Radioactive krypton and xenon can be removed from nuclear power plant off-gased by new system Separation plant at Arzew, Western Neparation plant at Arzew, Western	Oct Sept Nov Aug	2 4 19	87 10 23	bottles and recycle them through furance and bottle-blowing plants Safety glass windshields for '71- model cars	Sept	30	17	Obituary Health Alcohol and drugs — growing problems faced by management	Nov	25 25	12
hauled up on conspiracy charges as plant at Geleen, Netherlands . R Fluorocarbon propellant gas producers strike back at critics . Ghana's cryogenic gas plant . R Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic . N Nerve gas disposal bugs Army . Radioactive krypton and xenon can be removed from nuclear power plant off-gased by new system . N Separation plant at Arzaw, Western Australia planned . F Tennessee Eastern Transmission's two	Oct Sept Nov Aug	4 19	87 10 23 42	bottles and recycle them through furance and bottle-blowing plants . Safety glass windshields for '71- model cars . R . Used bottles will be repurchased, crushed and glass reused . M. Glass Containers Manufacturers Institute —	Sept	30	17	Obituary Health Alcohol and drugs — growing problems flaced by management Brown lung' — Textile industry scored on "do-nothing" attitude	Nov	25	16
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Fluorocarbon propellant gas producers strike back at critics Chanà's Cryogenic gas plant Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic Nerve gas disposal bugs Army Addioactive krypton and xenon can be removed from nuclear power plant off gased by new system Separation plant at Arzew, Western Australia planned Tennessee Eastern Transmission's two processes to make synthetic pine-	Oct Sept Nov Aug Oct	2 4 19 14 14	87 10 23 42	bottles and recycle them through furance and bottle-blowing plants	Sept	30	17 28	Obituary . Health Alcohol and drugs — growing problems faced by management . 'Brown lung' — Textile industry scored on "do-nothing" attitude on bysinosis			
hauled up on conspiracy charges DSM building gas plant at Geleen, Netherlands Fluorocarbon propellant gas producers strike back at critics Ghana's cryogenic gas plant Nerve gas: no evidence of leaking from old cargo ship sunk in the Atlantic Nerve gas disposal bugs Army Radioactive krypton and xenon can be removed from nuclear power plant off-gased by new system Separation plant at Arzew, Western Australia planned Tennessee Eastern Transmission's we	Oct Sept Nov Aug Oct	2 4 19	10 23 42 22	bottles and recycle them through furance and bottle-blowing plants	Sept July July	30	17 28	Obituary Health Alcohol and drugs — growing problems flaced by management Brown lung' — Textile industry scored on "do-nothing" attitude	Nov	25	16

hazards" Job-safety legislation see Law Mrak, E. avers there is no evidence that	July	1	17
minute pesticide traces in food cause harm to the crisis by the turn of the NAS report says the nation is in for a health-care crisis by the turn of the	Oct	7	13
century unless biomedical research is adequately funded N O'Henry! candy bars recalled because	Dec	9	50
traces of potentially hazardous Salmonella bacteria found Prostaglandins: '70s panacea?	Sept Oct	30 28	17 45
Test for excess mercury in canned tuns fish will begin this week N U.S. health expenditures will likely in-	Dec	16	24
crease about 12%/year for the next five years N	July	1	10
large-scale testing to prove claims, now-questioned, that vitamin C can pre- vent, cure colds	Dec	16	56
Warf Institute will carry out study of effectiveness of detergents and disinfectants in killing bacteria and			
Viruses	July	1	19
Thermon Mfg. by Chisso Engineering , N	Nov	11	43
Heavy Water AEC of Canada purchases heavy water from Sweden's inoperative Marviken			
reactor N Canada: Ontario's nuclear complex in- cludes heavy-water plant vital to	Sept	16	68
Canada's role as a supplier of power facilities	July	1	40
Canadian plant at Port Hawkesbury, N.S. onstream	Oct	14	42
heavy water process using a distilla-	A	20	22
tion technique	Aug	26	33
Heptanoic Acid - Tariff may be im-	July	15	65
posed N Herbicides Armed Services will continue with their	July	15	00
detoliation program in Vietnam	Sept	2	26
Dow Chemical-Latin America raising prices of exported herbicides N Pesticides report by the U.S. Tariff	Nov	18	100
Comm. underscores the obvious: some of the old-time bug-killers have just about had it. Phenoxy herbicide prices N July 8-27, N	Aug Oct	12 7	9 37
2,4,5-T: ecology faction presses for more restrictions on pesticide uses but demand continues to grow	Aug	5	21
2,4,5-T: USDA tells producers to clean up processing N	Oct	7	14
letter Hexafluoropropylene — Fluorinated propylene HFP going commercial N Holography — Holosonics purchases	Oct	28	33
exclusive license to acoustical holography patents from Holotron Corp	Nov	18	113
Hormones			
Contraceptives: new hormone approach to birth control is nearing the			-
marketing stage		1	39
from the market	Aug	19	98
Rubber's Chemical/Plastics Div, vice- president and general manager: Sales-			
man-coach now manages business team Hungary	July	22	48
Ethylene plant at Leninvaros, in eastern Hungary Fertilizers: Coppe-Rust's third	N Sept	9	56
plant	N Aug N Spet	5	80 56
Hunting — Game for specialty chemical	Oct	28	37
Hydraulic Fluids - Prices	N Dec	23	40
Hydrocarbons Aerosol propellants prices Bolivia-Spain agreement for the joint production and marketing of	N Dec	16	45
Bolivian hydrocarbons	N Sept	16	18
a brominated hydrocarbon inter- mediate		12	13
Japanese plant Lear, W., develops fluorinated hydro- carbon called Learium for steam	Sept	16	23
engines	N Dec N Aug N Dec	16 19 16	60 85 45
Hydroffuoric Acid Chemico obtains BUSS rights to			
technology for making hydrofluoric			
fluorspar Lehigh Valley's plant at Easton, Pa	N Nov R Nov N Dec	25 18 16	46
Prydrogen — Partial oxidation of fuel			
-lydrogen Peroxide — Du Pont completes expansion and will begin addition		21	26
Hydroquinone - Rhone-Poulenc plant near Lyon		1	7 42

Ice Removal - Camp Chemical boosts sales 70% with accent on marketing	Dec	9	29
Iceland — Diatomite mine and pro- cessing plant near Lake Myvatn R Illinois Institute of Technology — Pro- cess to separate organics from water	July		33
and get a water stream containing only one of two parts/million	Dec	16	59
process for getting copper from sulfide ores research program	July Aug	15 12	79 5
Imports AFL-CIO seeks membership support for plan to regulate imports ASP see Tariffs	July	22	19
Argentina's slash in import duties worries chemical makers	July	22	16
Asphalt's additional imports okayed . N Benzenoids: SOCMA seminar limns ASP need	July	29 18	23
Benzenoids take a beating — and worst is ahead (charts)	Sept	9	13
Burlington's Lynn says old rules hurt trade	Dec	23	16
Canada and Communist China establish diplomatic relations . N Chemical imports rose in May . Chinese to import fertilizer from Japan N	Oct July Sept	21 8 9	73 20 56
import-export volume	Oct	7	17
tain key products could go up if it joins the Common Market N Japanese benzene producers' efforts to crack the U.S. market apparently	Aug	19	31
unsuccessful; trade mission withdraws offer	July	15	66
Japan has second thoughts on curbing textile exports to U.S	Dec	2	22
on voluntary restriction of exports chops trade bill chances Quotas to get U.S. nod?	Nov July	4	14 16
Lake Erie bridge would be an aid to chemical shippers	Oct	21	24
quitting the business	July	15	28
opens the way for more oil Increased imports for use as petro- chemical feedstocks seen N	July	8	14
import quota system for "the fore- seeable future"	Aug	26	20
President Nixon barred from sub- stituting a tariff on oil for present system of oil import quotas N Proposed regulations on imports of	July	22	23
petrochemical feedstocks getting close scrutiny	Aug	19	97
import quota tickets	Aug Sept	5 30	25 16
protesting the Interior decision to place	July	15	26
species" list Steel outlook: good — but no records Sulfur imports may be curbed by new bill (chart)	July	29 26	19
bill (chart) Sulfur would get import protection under a bill introduced by Sen. Long. N Tariff Commission set to probe U.S. —	July	29	23
Tariff Commission set to probe U.S. – foreign industry competition	Oct	J	16
makers Textile workers losing jobs because of Trade bill see Tariffs	Dec	16	14
TWUA supports quotas on textile imports U.S. chemical exports' surplus over	Sept	9	18
imports rose in June U.S. liberal trade policies' reversal worry Japan and Europe N	July	8	31
Fertilizer and nylon production stepped up; first caprolactam plant to be built	Aug L Aug	5 12	84
Nylon-6 tire plant	Aug	16	10
Bauxite discovery in southwest Kalimantan Petramina picks Bechtel to build polypropylene plant	R Nov		
Industry Developments ARCO: A chemical arm with lots of			
Area developments see Area Development BASF's U.S. operations may be con-			57
solidated Canada: Economic slump stunts chemical growth (tables)		15 25	

Coal shortage chills chemical pro- fit hopes (chart) Combustion Engineering's Minerals Div. plans expansion of its clay and bauxite	Oct	21	21
Ga	Nov	25	16
30 conglomerates with bank sub- sidiaries to continue making acquisitions without limit N	July	15	65
Cresco Fertilizer's Westernport, Victoria, complex is for sale	Oct	14	38
Enjay moving corporate headquarters to	Oct	14	19
Ethical drugmakers' role shifts	Oct	21	25
Pasadena, Tex N French chemical industry in position to challenge Europe's leaders (map,	Oct	14	13
table) Germany's "Big Three" are spearheading the West German expansion thrust:	Sept	9	57
firms plan worldwide expansion; major	C	22	20
projects (tables)	Sept	23	29 14
Hoechst and Perstorp joint sub- sidiary in Goeteborg N Italy plans to triple output by '80	July	1 29	31 26
Japan's chemical industry plans to boost	Sept	2	81
MCA 20th semiannual meeting: draws a bead on environment, productivity	Sopre	-	0.
and exports	Dec	2	21
Merger-approval board idea being re- vived: Celler to introduce bill N	July	29	23
Mergers: Accountants are changing	July	8	16
the rules on mergers and acquisitions AICPA drops controversial "size test" for permitting the pooling-of- interests method of merger			
interests method of merger accounting	Aug	12	6
Mergers: Number of coporate merger announcements was down "only 15%"			
Merners and acquisitions	July	15	19
Akzona, new company formed by merger of American Enka, International			
Salt and Organon, Inc. R Aug 19 27, N	Sept	2	81
New company debuts ready for the	Oct	7	18
Akzona will acquire three subsidiaries			-
of Armour & Co N Alberto-Culver sells Culver Chemical	Dec	9	7
Co. div. to Northern Petrochemical . R Alcolac Chemical purchases additional	Aug	19	27
shares of Water Pollution Research & Application	Aug	5	27
American Cyanamid and Ervin will merge	Aug	12	13
American Cyanamid and J. Hancock Mutual Life Insurance will be			
partners in commerical farming		4	18
venture			
will be ran by Lederle Labs. Div. , R American Cyanamid's agreement to	Nov	11	23
acquire Elizabeth Arden Sales pre- dates Eli Lilly's arrangement R	Oct	14	22
AC will sue for court enforcement		28	14
American Hoechst purchases Stauffer's 50% share in Stauffer Hoechst Polyme			
new company called Hoechst Polymer	Dec	23	14
American Metals Climax may buy	000	40	
Northwest Aluminum's site near Astoria, Ore	Sept	2	18
mines from Kennecott subsidiary Peabody Coal	l Aug	5	17
Amoco-Avisun consolidation creates \$320-million chemical maker	July	8	41
Apple River Chemical grants option to St. Paul Ammonia Products to			
buy all its plant assets	R Aug	19	27
idenotiations called off	Nov Dec	11 23	14
Justice's proposed consent decree			
settlement N Aug 5-18,	N Aug	12	6
Germany's Rohm & Haas	V July	29	28
splurge: Siegle Group, including Kast & Ehinger, and Howard &	ht belee		31
Sons		1	
bank			85
from Bio-chemical Procedures Bayer acquires Allied's 50% interest		23	18
in Sherkate Sahami Aliaf		29	28
ing Materials	N July R Sep		28 87
ing Materials Bayer withdraws bid Bechtel Corp. taking over C&1/	N A		70
Beacham acquires Uhu Werke, H.U.M.			
Fischer Borg-Warner's Marbon Div. sells its	R Dec	16	42
line of adhesives for ABS to Solar Compounds	R Dec	23	18
Britain's Dunlop and Itlay's Pirelli will "consolidate interests"	. De	16	16
Chem Systems and DeBell & Richard- son merger			44
Ciba-Geigy merger proposal gets U.S. Justice okay R July 15-32,	July	22	18

Antitrust division spells out			
requirement of merger	July Oct	29 28	15 43
Merger causing reshuffling of some divisions	Nov	4	18
Petroleum	Nov	11	38
Dart Industries acquiring Lancy Labs. R Doric Corp. acquires J.C. Milligan , , , R Dow Corning sells share of Soc,	July Oct	15 7	32 19
Industrielle des Silicones to Rhone- Poulenc R Dow, Swift and ICI of Australia may	Aug	5	27
merge Australian investments N Du Pont to purchase Bell & Howell's analytical instruments line manu-	Nov	18	38
DSM will buy Allied's 50% share in	Aug	12	6
Emery Industries will purchase 51%	July	8	20
of Jordan Chemicals' shares R Engelhard Minerals buys 48.4% of the shares of Soc. de la Cornouaille Francaise from Cie. de Mokta R Esso Chemical acquires full owership	Sept	23	19
of Fibras Esso and Amoniaco Espanol	Dec	23	31
Esso's interest in Fertica will be bought	Aug	19	31
Esso's Manilan fertilizer plant may be	July	8	31
Firestone acquires shares of Radiation Dynamics R	Oct	28	21
Fisons will merge its Agrochemicals and Industrial Chemicals divisions R	Dec	2	
General Cigar wants to acquire Bermas Plastics and Pan American Products N		11	52
General Cigar won't sell its Ex-Lax stock to Pfizer	Nov	11	13
Georgia-Pacific will buy Meadow River Lumber			
Goodrich-Goodyear battle for control of Vredestein July 8 17,	Dec	15	22
Grace's Hatco Group has acquired			
Sons ro German BASF R July 1-18, N	July	15	32
Hercules to spin off the 34% interest in Columbia Rope it acquired in	Aug	26	18
'65 R Hoechst acquires majority holdings in Bre-leira de Sinteticos, plans	7.04	20	
nylon and polyester fibers ex- pansions	Nov	11	23
Hoechst buys 26% interest in	Dec	23	31
Hoechst increases in Hans Schwarzkopf from 25 to 48%	Aug	5	80
Extrusions	Nov	11	23
Huels will buy Chemische Fabriek	Sept	23	39
Servo N ICI acquires U.K. subsidiary of	July	22	38
Ireco Chemicals			
International Chemical & Nuclear ac-	July	29	28
quires Winley-Morris	Dec	9	14
Asahi	Nov	11	23
may merge N Lanvin-Charles of the Ritz and Squibb	Aug	26	11
Beech-Nut may merge R M&T Chemicals attains full ownership of	Nov	4	18
Billiton-M&T Chemische Industries . R Mallinckrodt acquiring Fries & Fries . R Merck and National Starch call for	Sept	16 15	25 32
merger talks N Millmaster Onyx acquires Radioptics'	Aug	12	6
merger talks N Millmaster Onyx acquires Radioptics' Polymer Div. Monsanto sells "agricultural centers" in III, and Iowa and ammonia ter-	Nov	4	18
minals in Iowa and Neb. to FS Services Inc	Nov	18	99
Northern Petrochemical will acquire Canton Containers	Dec	16	18
American vinvl holdings N	July	29	11
Pacific Industries will buy Martin Marietta's Sinclair & Valentine N	Dec	23	10
PASCO agrees to consolidate its assets with Susquehanna Corp	July	8	19
Oil, Interocean Oil and Ocean	July	1	18
Pantasote and Willcox & Gibbs merger talks	July	1	9
		8	20
Pharmacal approved	Aug	12	10
Warner-Lambert merger N Merger is eyed by Justice N Shift in ethicals: fewer independents	Sept	14	18
Justice Dept, won't challenge the	Oct	21	25
merger, but suggests FTC take a look at the deal	Nov	25	16
Pennwalt will sell its Harchem Div. to Union Camp		9	9
Phillips Petroleum bids to acquire Midwest Oil		4	9
Power Gas acquires Barnag Verfahren- stechnik GmbH		12	33
Radiation Technology acquiring U.S. Composites Corp. and American			19
Nuclear Corp. St. Paul Ammonia buys Apple River			
Chemical's ammonia business I Schering acquires 49.5% interest in	9 Oct	28	21

Schering and Plough agree to consolidation into a new corporation:	Nov	18	74
Schering-Plough R Merger approved R Shift in ethicals: fewer independents Soc. de Prayon seeking to acquire all	July Aug Oct	5	18 27 25
the shares of Soc. des Engrais Chimiques et Organiques	Dec	16	40
M.W. Kellogg acquires 1/3 from Ugine Kuhlman; another 1/3 sold to Sodetag N	July	22	33
Standard Alliance Industries will acquire Fabricated Steel Products	Aug	19	27
Stauffer acquires carrageenan plant formerly operated by Kraft Foods . R Stepan Chemical acquires General	July	8	20
Aromatics	Nov	25	16
bably be eased out	Sept	30	24
R Aug 12 13,	Aug	12	16
Corp. will buy Allied's coke-oven building business	Sept	9	20
Paper Div. acquires B.C. Interior Sawmills	Dec	16	18
Wyandotte Chemicals will sell cement plant to Wyandotte Cement R	Oct	28	21
Wyandotte Industries and First Hart- ford Realty may merge	Aug	26	18
names Oligopoties: FTC plans in-depth look at			
business concentration in the chemical industry Reichhold: On the recovery road Shell moving out of NYC by mid-71 N	Sept Nov Oct	9 18 21	16 91 17
SIR dips into international money for big petrochemical expansions in southern Italy	Oct	28	43
Soviet chemical industry boosts out- put 12% in first nine months '70 , N Sweden's chemical industry will boost	Nov	4	49
output about 7%/year during the next 30 years	Aug	5	79
(tables)	Nov Sept	4	51 65
We will shed few tears for '70 - View-	Dec	23	5
Wilmington, Del., ghetto tells chemical firms: "It's up to you". Meyer Lurie	Sept	2	37
Wilson Pharmaceutical will launch ex- pansion program N	Nov	4	10
Ink — Fitchburg develops no-copy paper for use with special ink to prevent the reproduction of newsletters and other documents for limited distribution	Nov	18	110
Insecticides Canadians are warned to expect less			
from pesticide performance	Sept	30	37
to its derivative DDE	Sept	9	15
DDT see DDT	Sept	2	24
DDT substitutes being tested in Australia	N Aug	12	33
strictions on uses, but demand for	Aug	5	21
pesticides continues to grow rapidly European pesticide pact to protect the environment		29	28
DDT; USDA suggests auxiliary treat- ments	July	22	29
Vichigan biochemists suggest new way to kill insects: Starve them of chloesterol		16	60
'Natural' pesticides: still far from the market	Aug	19	98
Penick's SBP-1382 bug killer will be tough rival for pyrethrum Pesticide bill hearings resumed	Sept R Oct	23 14	45 22
Pesticide marketers expect an improve-		19	85
labels on nine products		11	23
Pesticides regulation will be one of the areas taken over by the new EPA Pesticides report by the U.S. Tariff Com-	N Nov	18	49
underscores the obvious: some of the old-time bug-killers have just about had it	. Aug	12	9
Polymer coating for pesticides will be tested	N bobs	8	21
Texas charges New Mexico cattle rancher with pollution of Canadian River by spraying the hard pesticide toxaphene on range grass to kill caterpillars	. July	15	25
USDA is broadening its review of pesti-			
cide applications	s		
degraded are basis for packages, con- trolled-release pesticides, drugs	. Sep	2	65
ification to make pipeline gas has to cor in the U.S. says H. Linden	N Dec	23	23
Instruments Electromagnetic screening device, Friske	m,		

to foil aircraft hijackers N Electronic "gun detector" to help pre-	Sept	23	49
vent airplane hijacking	Oct	7	17
Shell Development instrument can spot	Dec	2	44
tants in water	Aug	26	15
sulation Flame-retardant urethane insulation	0	00	07
systems' competition N Foamed sodium silicate is an effective fire-resistant insulator . N	Oct	28	27
Urethane: foamed-in-place rigid urethane wins okay for structural and insulation	Dec	2	44
use in houses	Dec	2	20
vehicles market	July	15	56
wells N vter-Industry Emission Control (IIEC) Pro- gram — A cooperative research effort of 11 automotive and oil companies in the	July	29	11
U.S., Japan and Italy N Itermediates — Ethyl's Magnolia, Ark., plant to produce a brominated hydro-	Dec	16	60
carbon intermediate	Aug	12	13
discusses multi-national action by labor , iternational Powder Metallurgy Confer- ence (Third) — Hot-forging of preformed	Nov	4	17
parts and superalloys discussed	July	22	29
big in furniture (table)	Sept	30	22
Fertilizer prospects bloom	Oct	28	18
	Oct	7	19
Sales up slightly — Commerce Dept, report Aug 19-23 'Statesmanship' and shutdowns save the day for aluminum; production, pro-	Sept	23	18
ducers (chart & table)	Dec	2	17
control N On the rise again N	Oct Nov	14	28 27
on Exchange			
Brackish mine waters will be converted into drinking water using Dow's Sul-			
Chemical Separation's ion-exchange pre- treatment will be installed on the de-	Oct	28	35
salination plant at Freeport, Tex N Polyacrylate resin used to take up the	Sept	2	90
gold in aqueous solutions N	Sept	30	31
GE high-intensity discharge lamp uses complex ions as light source N Zeroing in on plating wastes: three new	Oct	14	41
processes gang up on cyanide waste from plating baths	Dec	16	54
Polyacrylate ion-exchange resin is used to take up the gold in aqueous solu-	Cont	30	31
tions	Зерт	30	31
Allied will sell investment in Bandar			
Shahpur complex to its partner National PetrochemicalN Petrochemical fertilizer complex at	Dec	16	37
Bandar Shahpur dedicated N	Nov	11	39
reland Magnesia plant	Oct	7	43
Northern Ireland chemical companies	July	15	73
plans . N Steel tire-cord plant in Limerick will be built by Enka Ganzstoff	Aug	5	27
Western Australia set to begin R	July	8	20
Isobutylene - Japanese plant at Mizushima	Dec	16	39
Isocyanates Allied plans unit in Canada R Du Pont will double its capacity for	Dec	2	52
Hylene organic isocvanates at Deep-	Aug	5	27
Jefferson's polymeric isocyanates plant	Dec	16	9
at Port Neches, Tex Isophthalic Acid — Amoco Chemicals Belgium plans Geel plant N Isoprene — Rhodia's new route to frag-	Dec	16	10
rances: catalytic reactions convert iso- prene to terrene chemicals	Nov	18	109
Isopropanol — Shell Chemical plans new unit at Dominquez plant near Los. Angeles N			14
Israel	500	(4	14
Ammonia and urea plant at Haifa D	Nov Sept	18	74 87
Methanol plant in Haifa	Sept Sept	2 2 2	87 87
Polystyrene unit at Beer Sheba R		16	42
Algeria-Italy joint venture to build metha-			
nol plant at Arzew, Algeria N ANIC foam rubber plant at Ravenna . F ANIC ticenses Phillips Petroleum's poly- diene process to make solution elasto- mers and plans to build synthetic	Dec Oct	14	51 38
rubber plant using the technology			

Part													
Commonwhite in the Company Compa		in Ravenna	Aug	12	16	may be jeopardized	July						
Part Content		"consolidate interests"	Dec	16	16	Plastic exports up in first half '70 N				target of UAW	Aug	5	27
Commonwealth part and filters No. No. 10 71 71 72 73 74 74 74 74 74 74 74		by '80	July	29	26	Pollution, rapid industrial growth, lack				Unions denounce the initial contract	Sent	0	16
Only monthly grider of the control o		Continuous-filament PP unit at Terni . R	Nov	18	74	problem despite heavy plant spending	_			GM shutdown: wide and severe repercus-			
Commonwealth of the comm		ENI's natural gas plans N				Pollution curbs result in shortages	Dec	9	42	Strike is beginning to burt chemical	Sept	23	16
Part New		ICI's processing and packaging pharma-				higher prices in Japan				producers	Sept	30	17
## Sparse of table Oct 7 20		Labor peace: can chemical industry	Nov	18	74	Polypropylene plant at Kawasaki R Polypropylene plant completed by Sanyo	July	29	26	Auto sales down 45%, chemical sup-	Oct	14	21
March and existing membrane and control and statements were control and statements were control and statements with a statement of the control and statements with a		avoid crippling strikes? (table)				at Nagoya R	Oct	7	43	Canadian industries slowed by GM			
Ang 12 25 25 Pounds between and selectations agree to Many and the product of the continue of			Oct	14	35		Aug	5	80	Talks go critical, raise concern among	Oct	21	23
Section of the content of the cont		a large domestic market	Aug	12	25	Potash buyers and Saskatchewan agree on			60	chemical makers	Nov	11	20
Particular services and colors and colors of the particular services and approximate dependent dependent and present and approximate present and pre			Nov	18	74	Negotiating over minimum floor price N				bundle (table)	Nov	18	44
Manages Chear region		Montedison's Bruno Janni and Guido	halo.		20	Prefabs: series of agricultural communi-	Mari		74	Settlements help ease U.S. auto sup-		-	
Carryon, New Agents to the drawn Carryon, New Agents Carryon		Merzagora, Cesare resigns N				Roundup of new plants and projects	INOA	10		still bleak in Canada	Dec	16	16
Montanger Standard		Campilli, Pietro named to the chair-	Dec	23	31	R July 8-34, R Aug 12-16 R	Dec	16	39	Britain proposes new labor laws designed	Oct	1.4	25
September Content Co		Montedison's reorganization involves				manufacturing	Oct	14	22	British dock strike ties up exports and			
Community Comm		grouping into 10 divisions (table) Montedison's sodium chloride plant near	Oct	7	40	Styrene producers plan to double capa-	Oct	21	73	Strike hurts ICI sales and Shell	July	22	10
Fundamentation and processors of the second processors and processors of the process		Ciro Marina R	Sept	2	85	Synthetic fiber industry faces mounting				exports	July		
Procedure product societies does used No. 20 20 20 20 20 20 20 2		ment companies N	Nov	4	49					Brown lung' - Textile industry scored on	Aug	5	18
Provide marked and AGCO's Rippaia Provide marked Pr		Neotil's PP plant at Terni	Sept	2	85	Kawasaki R				"do-nothing" attitude on byssinosis	Dec	16	18
Fig. on the content of ACCS fingular content o		'71 N		25		Terephthalic acid plant at Iwakuni-				of 75,000 workers N	Sept	9	9
Application No. 10 74		Polluters may face criminal charges N PF unit onstream at ABCD's Ragusa	Dec	2	43	Ohtake	Oct	7	43	Can-maker talks could affect labor pic- ture for nonferrous metals	Nov	25	14
Treatment patter from and close Nov 18 10 10 10 10 10 10 10		complex	Nov	18	74	using Amoco technology R	July	29	26	Canada: pulp mills in B.C. are being			
Same Name and approximate plant of calling from the calling from the calling for the calling from the call		in the near future N	Nov	18	100					Canadian chemical producers are laying	Sept	2	28
Augustable State 1		Snia Viscosa enlarging its plant at Colle-				Toluene sold to Standard Oil of Calif-		40	60	off employees and delaying new pro-		00	00
Augustable State 1		Snia Viscosa supplies Russian carbon	Dec	16	42	Toray Industries expanding into fiber	Sept	16	58	Chemical companies hold the line on	Aug	26	28
California and Solity		disulfide plant	Aug	5	80	raw materials and plastics N	July	22	39	employment (table)	July	29	17
Navigatick-Rumanical R Ang 12/13 R Ang 12 16 16 16 16 16 16 16			Oct	28	43	tions restricted	July	8	34				
Augustack-Rumanca R Aug 12-13		Sulfuric acid plant	Oct	7	42	World's first commercial aniline plant				costs that are outpacing per-man	Don	16	12
Augustation			Aug	12	16	terial built by Mitsui Petrochemical In-				Contract settlements and employee	Dec	10	13
pupe plant planted incharry (and plant support follows) Approx. Promise and support follows (and plant) Approx. Approx. Exercise producers on a building Acytic ceter producers on a						dustries at Chiba complex N	July	22	39	Cooper Tire & Rubber's Findley plant	Oct	28	20
Again						pulp plant planned N	Dec	16	37	settlementN	Nov	11	14
From Jagon						Japan Ammonium Sulphate Industry				Costs, rising much faster than produc-	Oct	28	13
Section Sect						from Japan	Sept	9	56	Dow: OCAW sights on Midland target			
Department Dep		•				Japan Chemical Fibers Assn. — Fiber and					Nov	11	21
Secretary Secr	1	lapan				pansions (table)	Sept	2	85	Dow's Rocky Flat, Colo., plant workers			
Becomes producer of Feffor to Crack Feffor to			Doc	2	60	Japan Chemical Industry Assn. – Labor costs reported	Oct	28	43	Drug abuse: analytical labs are supplying	Sept	9	18
Section Comparison Compar		Benzene plant uses a Houdry process				Japan Management Assn Chemical		20		mass screening services to help identi-			
## Part						annual): Chemshow Japanese style	Sept	30	28	tial employees	Dec	2	41
Japanese Soort of Polymer Science		trade mission withdraws offer N				Japanese Aromatics Manufacturing Assn	lister			Drug abuse; The drug problem is your	Nov	4	5
Discreting Petrogumma in Saleador, Brazil to produce Zehipheamal and in produce Petrophysical and and produce produce and produce produce and produce produc		BTX capacity boost (chart) Brazilian and Japanese firms team to form	Aug	12	7	Japanese Society of Polymer Science -	July			Drug abuse: firms seek answers to			
## Public And Extraction Disks Process N Aug 19 18 18 18 18 18 18 18 1		Ciquine Petroquimica in Salvador, Brazil				Discusses new processing techniques	Aug	5	43	Du Pont trims employment at Deepwater	NOV	4	
Buys AMA know-how Capter 18 18 19 18 19 18 19 19		n-butanol N	Aug		79					N.J. plant again last week	Dec	16	17
Its off-transec earthon black process N Aug 19 27		Buys AMA know-how	Sept	9	18					Spruance fibers plant N	Nov	11	
Chemical industry plans to boost R&O N Sept 2 2 2 2 2 2 2 2 2		its oil-furnace carbon black process . N				1/					Nov	25	15
Chemical industry will spend nearly \$2 Dillion in fress Vol. 25 32 Section Vol. 25		Chemical industry plans to boost R&D N				K				backs on personnel N	Dec	16	37
Chemical Plant Engineering Exhibition (Sth annual) Chemical Plant Exhibition Ch		Chemical industry will spend nearly \$2								Fiber makers lay off thousands as their market weakens	Oct	21	22
Chemical Plant Engineering Exhibition Cith annual 1		Chemical labor costs continue to rise . N					Sept	2	87	Germany's labor pot boiling again N		14	
Chemical plant exports to Latin America and Estenter further protein and Estenter further from June 1		Chemical Plant Engineering Exhibition	_			Tire plant under way N	Aug			crease strike benefits	Sept	9	18
and Eastern Europe pushed. N Sept 23 39 Meerbeck. R Aug 12 16 IntercoGateway terchesy striks settled N Sept 16 22 Chines to import fertilizer from Japan. N Sept 9 56 Nov 17 23 Nov 17 12 Nov 18 14 Nov 18 14 Nov 18 14 Nov 18 15 Nov 18 16 Nov 18 18 Nov 18 Nov 18 18 Nov 18 N		Chemical plant exports to Latin America	Sept	30	28	of its alcohol and ketone plants at				Hammermill Paper's Erie, Pa., plant ends			
Deter Plastic will marge with Asahi . R Nov 11 23 Klein, Carl — Outs in policy row over water quality . Sept 30 15 Very 15 Clay 15 Cla		and Eastern Europe pushed N	Sept	23	39	Meerbeck R	Aug	12	16	Imco-Gateway two-day strike settled . N			
Delies Pastic will merge with Auderland Resident Resident Auderland Resident Auderland Resident		petrochemical complexes R				'Philadelphia lawyer' may be what FTC					Dec	9	13
Du Pont and Missubish possible poly- ester film venture — N July 29 27 Engineering contractors gird for battle with oversear rivils — Sept 30 28 Environmental villain air pollution, Sept 30 38 Environmental villain air pollution, Sept 30 40 Environmental villain air pollution of Alia villain crease its stake in Korea Oil All villain air Sept 30 Environmental villain air pollution of Alia villain crease its stake in Korea Oil All villain air Sept 30 Environme		Chinese to import fertilizer from Japan, N Delta Plastic will merge with Asahi				Klein Carl - Outs in policy row over	Sept	16	22	labor	Nov	4	17
Rent infiniterating contractors gird for battle Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Koreo Oil R Engineering gird incomase its stake in Ko		Du Pont and Mitsubishi possible poly-				water quality	Sept	30	15				
Acytonitrile plants R July 15-32 . R July 29 26 Environmental villam: air pollution, slaughter of sperm whales, mercury spillages and now martitime fleet charged with dumping oil into the sea . It is Ethyl Toya applies for permission to ship lead additives in trucks and railway tank cars, government agencies express opposition . July 29 18 Ethylen plant plans cut in half . N. Dec 2 51 Ethylene plant plans cut in half . N. Dec 2 55 Ethylene plant plans cut in half . N. Dec 2 55 Express and textile makers are mapping sizable expression for spiral demands. Communication and short of spiral demands. Sept 3 41 Goodyier plant plans polysoprene venture Sept 23-41 Hydrocarbon resin plant . Sept 3 41 Goodyier plans polysoprene venture Sept 23-41 Missui Toatsu's Toshio Sueycosh: Keeps his cool when going is rough . Dec 2 13 Missui Toatsu's Toshio Sueycosh: Keeps his cool when going is rough . Dec 16 68 Missui Toatsu's Toshio Sueycosh: Keeps his cool when going is rough . R. Dec 2 13 Missui Toatsu's Toshio Sueycosh: Keeps his cool when going is rough . R. Dec 2 20 Missui Toatsu's Toshio Sueycosh: Keeps his cool when going is rough . R. Dec 2 20 Missui Toatsu's urea-and melamine-based adhereness in investments in five key perrochemical industries Assn. wants to ban foreign investments in five key perrochemical industries Assn. wants to ban foreign investments in five key perrochemical industries Assn. wants to ban foreign investments in five key perrochemical derivatives . N. July 29 28 Acrylonitrial plants R July 15-32 Aug 5 69 Petrochemical complex at Ulsan will produce the Petrochemical buildup. Aug 5 28 Acrylonitrial plants will like will produce the More Aug 4 10 July 8 33 Aug 5 69 Petrochemical complex at Ulsan will produce the Unit of Support Support for plant or regulate imports		Engineering contractors gird for battle	July	29	27	Korea				giving union power to pull ICWU out	_		
salughter of sperm whales, mercury spillages and now martitime fleet charged with dumping oil into the sea lickly love applies for permission to ship lead additives in trucks and railway tank cars, government agencies express opposition July 29 18 South Korean petrochemical buildup: \$220 million in new plants (and special complex) and the plant plans cut in half N. Dec 2 51 Krypton – Radiocative krypton and xenon can be removed from nuclear power plant to flyages by new system N. Oct 14 35 Each of the plant plans cut in half N. Oct 21 35 Explant of flyages by new system N. Oct 14 42 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plans cut in half N. Oct 28 43 Each of the plant plant of the plant plans cut in half N. Oct 28 43 Each of the plant plant pl		with overseas rivals	Sept	30	28					ICWU seeks representation on boards of	Oct	1	20
spillages and now maritime fleet charged with dumpfing oil into the sas . Ill Ethyl Toyo applies for permission to ship lead additives in trucks and railway tank cars, government agencies express opposition July 29 18 South Korean petrochemical buildup: \$220 million in new plants (map)							July	29	26	multinational companies	Aug	5	28
Eithyl Toyo applies for permission to ship lead additives in trucks and railway tank cars; government agencies express opposition. July 29 18 Ethylene plant plans cut in half N Dec 2 51 Fair Trade Comm. raids 30 offices of eight major titanium oxide manufactures for evidence of price-fression, N Dec 2 51 Fair Trade Comm. raids 30 offices of eight major titanium oxide manufactures for evidence of price-fression, N Dec 2 51 Foreign investment rules will be liberalized on Sept. 1 Aug 26 14 Goodrich bows out of Geon deal Sept. 3 Aug 26 14 Goodrich bow			A	E	60	duce HDPE and VCM R	July	8	33	leader with up-to-date ideas	Oct	7	60
ship lead additives in trucks and railway tank cars, government agencies express opposition. July 29 18 Ethylene plant plans cut in half N Dec 2 51 Ethylene plant plans cut in half N Dec 2 51 Titanium dioxide plant in Inchon R July 29 26 For gight major titanium oxide or manufacturers for evidence of price-fixing N Part Intanium dioxide plant in Inchon R July 29 26 For gight major titanium oxide Chinese For gight major titanium oxide Chinese For gight major titanium oxide plant in Inchon R July 29 28 For gight major titanium oxide plant in Inchon R July 29 28 For gight major titanium oxide plant in Inchon R July 29 28 For gight major titanium oxide plant in Inchon R July 29 28 For gight major titanium oxide plant in Inchon R July 29 26 For gight major titanium oxide plant in Inchon R July 29 26 For gight major titanium oxide plant in Inchon R July 29 28 For gight major titanium oxide plant in Inchon R July 29 26 For gight major titanium oxide plant in Inchon R July 29 26 For gight major titanium oxide plant in Inchon R July 29 27 Sept 23-41 For gight major titanium oxide plant in Inchon R July 29 27 Sept 23-41 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 29 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 38 For gight major titanium oxide plant in Inchon R July 29 27 Sept 39 For gight major titanium oxide plant in Inchon R July 29		Ethyl Toyo applies for permission to	Aug	5	09	in Taegu	July	29	26	International Paper's Southern Kraft Div.	luty	15	10
Communist demands Lized on Sept 1 - Sept 2 - Sept 3 - Sept 2 - Sept 3 - Sept 2 - Sept 3 - Sep						South Korean petrochemical buildup:		16	20	Italy's labor peace: can chemical industry		13	
Ethylene plant plans cut in half N Dec 2 5 51 Krypton – Radioactive krypton and xenon can be removed from nuclear power plant off-gases by new system N Oct 14 42 Japan's chemical labor costs continue to rise N Oct 28 43 Japan's chemical labor costs ontinue to rise N Oct 28 43 Japan's chemical labor costs ontinue to rise N Oct 28 43 Japan's chemical labor costs ontinue to rise N Oct 28 43 Japan's chemical la		opposition	July			Titanium dioxide plant in Inchon R				avoid crippling strikes? (table)		14	
eight major titanium oxide manufacturers for evidence of price elixing. N Aug 19 85 Fertilizer producers bow to Chinese Communist demands Communist demands Communist demands Subje varietizer producers bow to Chinese Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety bill Subject producers subject to trigger a major floor fight over the occupational health and safety		Fair Trade Comm. raids 30 offices of	Dec	2	51					Jackson, Miss. labor talks with three			
Fertilizer producers bow to Chinese Communist demands July 22 38 Fiber and textile makers are mapping Sizable expansions (table) Foreign investment rules will be libera- fized on Sept. 1 Good/ear plans polylisoprene venture Sept 23-41 Fydrocarbon resin plant R Dec 2 52 Komschi will import UC's Dynel and turn out about 200,000 hairpingse (chart) Oex 20 Fiber and textile makers are mapping Sizable expansions (table) Sept 2 85 Foreign investment rules will be libera- fized on Sept. 1 R Dec 2 52 Fydrocarbon resin plant Norwachi will import UC's Dynel and turn out about 200,000 hairpingse (chart) Oex 20 Fiber and textile makers are mapping Sept 23-41 Fiber and textile makers are mapping Sept 3-41 Fiber and textile makers are		eight major titanium oxide manufac-			05		Oct	14	42		July	1	18
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Sept 3 4 4 5 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5		sizable expansions (table)	Sept	2	85					Job-safety legislation		22	17
Goodrich Dows out of Gen deal Sept 23 41 Goodyars plans polytosprene venture Sept 23-41 Nemark plans polytosprene venture Sept 24-41 Nemark plans polytosprene venture Neter plans polytosprene venture Nemark plans plans polytosprene venture Nemark plans pl		Foreign investment rules will be libera- lized on Sept. 1	Aug	26	14					Evidence that more people are injured	July	22	17
Sept 23-1		Goodrich bows out of Geon deal				_				on the job than statistics indicate expected to trigger a major floor			
Hydrocarbon resin plant Somach will import UC's Dynel and turn out about 200,000 hairpieces/month Melamine: new plants, process change, may help ease the shortage (chart) Misul Toatsú Srobin Suevoph Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú s urea-and melamine- based adhesives plant at its Chiba works Misul Toatsú Stoki Sueva pagain Aug 19 25 Ammunition makers' layoffs due to Penta- gon decision to by-pass private small- arms ammunition makers Alled and local Technical Workers reach agreement Aug 19 25 Alled and local Technical Workers reach agreement Aug 19 25 Alled and trug - Govern processor processor proce		Sept 23-41	Dec	2	52	Labeling, drugs see Drugs				fight over the occupational health			
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Melamine: new plants, process change, may help ease the shortage (chart) . Oct 21 32 Alcohol and drugs — growing problems his cool when going is rough Misui Tosthio Sueyochi: Keeps his cool when going is rough. Dec 16 68 Allied and local Technical Workers reach sowered adhesives plant at its Chiba works R Nov 18 74 Nov 18 74 Petrochemical Industries Asan. wants to ban foreign investments in five key petrochemical derivatives N July 29 28 Amono: professional unionism set back by company move Sept 23 19 Howevers N Nov 25 16 Jobbes rate up again Aug 19 25 Aug 19 25 Aug 19 25 Aug 19 25 Aug 19 26 Amono: professional unionism set back by company move Sept 23 19 Amono: professional unionism set back by company move Sept 23 19 Aug 20 20 20 Aug 20 20 20 Aug 20 Aug 20 Aug 20 20 Aug 20 20 Aug 20 Aug 20 20 Aug 20 A		out about 200,000 hairpieces/month	Dec	2	20					safety bill			
Misui Tostiu's Tostiu's Evaluative Subject of the Standard Control of the Stan		Melamine: new plants, process change,				plan to regulate imports	July	22	19	Chemical companies call House version	Nov	25	9
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by company more bec 2 22		ban foreign investments in five key	July	20	28	Amoco: professional unionism set back				affect professionals and researchers more			
			July	20	20	by company move	Sept	23	19	Mohawk Rubber strike settlement at	Dec	2	22
		in manufacture											

West Helena, Ark,	Sept Dec	23 23	19 15
on education and training	Aug	12	9
'71 looks like an expensive year for chemical labor settlements	Dec	23	39
guide-lines" for its upcoming nego- tiations, ICWU has similar guidelines	July	15	30
Owens-Illinois reaches agreement on new contract	Oct	21	25
"Peril on the Job" new book, charges "excess" management concern with money, production and technology is responsible for many accidents in			
chemical companies N Philadelphia: Eastern Labor Advisory Assn. and 11 local unions of the TU	Dec	2	13
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May lead to setting up of a permanent standing committee to arbitrate un-			
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ficial Assn. (MEBA) in April, are al- ready unhappy about that decision	Aug	26	16
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Stauffer's Niagara Falls, N.Y. strike settlements Steelworkers contract demands may cause	Sept	9	18
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Stoneworkers Union to merge with United Steelworkers Jan. 1, '71 N Textile giant, J.P. Stevens, bucks wage	Nov	18	37
Textile workers losing jobs because of increased imports of rayon staple	Sept	16	24
fiber, says the AFL-CIO TWUA N Textile Workers Union of America decide	Nov	18	37
to launch an ad campaign in the South aimed at bringing wages into line Unemployment rate for Sept. up 5,5% caused by layoffs and walkouts in the	Sept	9	18
CPI	Oct	14	23
to resist? Unions will step up efforts to organize white-collar workers in the '70s says	Nov	18	48
NICB	Aug	19	25
tire makers Wage hikes and rising prices of materials and equipment boost plant construc-	July	1	16
tion costs	Nov	25 18	28 45
'We need these skills and abilities' - View-	Sept	2	5
point Milmington, Del., ghetto tells chemical firms: "It's up to you". Meyer Lurie . Wyandotte's Geismar, La., plant strike: employees charged with beating two	Sept	2	37
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Brooklyn Poly researchers Ledermann and Widhopf find way to use a laser for rapid detection and measurement			
of air pollutants	l Aug	5	69
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Law Air Pollution Control Bill: lobbying	· uary	20	
efforts		23	12
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permit about 30 with bank subsidiaries to continue making acquisitions without			05
limit		15	65 35
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California Senate kills a bill to phase out	Aug	19	97
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to equip its oil wells in the Gulf of Mexico with storm chokes or similar safety shutoff devices	Sept	2	17
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Cleveland: Refrigerant gas makers are	Sept	9	17
Cleveland faces pollution suit on Lake Erie	Aug	26	18
Columbia Cellulose files suit against Du Pont based on claims of breach of			
contract and warranty, and negligence R Consumer-product safety bill hearings . N	Sept Aug	26	28 20
Consumer-product safety bill hearings . N Contraceptives: Four manufacturers of "the pill" are being sued in Detroit . N Contraceptives: Ortho's Ortho-Novum and Searle's Enovid get favorable	Dec	16	9
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Du Pont seeking injunction to stop East- man "infringing" upon patent use in processing polyester fibers for carpet			
and apparel R Du Pont's trade secret suit against pro- fessional photographers Rolfe and Gary Christopher for spying: court rules for	Dec	9	14
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tions for limiting lead-in-gasoline; new clean air bill may sharply restrict the			
government's powers to regulate lead. N Lead-in-gasoline controversy see also	July	15	80
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into three bills to regulate the labeling and sale of such paints and help com-			
munities remove lead paint from old buildings	Sept	2	24
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review of efforts to control pollution put off indefinitely N	Dec	16	9
Pollution see also Water			
Mercury seed treatment row, Nor-Am wins injunction against suspension of			
Panogen July 22-27 USDA's right to ban sales upheld by	July	29	16
U.S. Court of appeals R Merger-approval board idea being reviveo:	Nov	18	46
Celler to introduce bill N Michigan Gov. Milliken may introduce an antilitter law that will ban sale of one-	July	29	23
way bottles and cans	Nov	25	16
giving citizens right to sue polluters Mixing rule legislation would enable barge	July	15	28
operators to mix regulated and upre-	Dec	23	10
gulated cargo N July 8-28 N Muskie calls hearings on power crisis N Nader, Ralph, eyes studies of Du Pont, Justice Dept. and FTC	Aug	5	59
Justice Dept. and FTC	July	1	14

Natural gas pipelines safety regulations set	Aug	26	10
Safety bill draws barrage of union criticism	Aug	7	18
New Kern County Land Co. wins a \$17.7 million judgment; award represents the short-swing profit realized by Occidental Petroleum in its unsuccessful '67	OCT	,	12
attempt to acquire the predecessor Kern County Land N N.Y. and San Francisco — Tough new air	Dec	16	10
pollution control standards OPS trying to come up with a model law	Nov	25	16
that would cover pipeline damage caused by so-called third parties	Sept	16	23
Oligopolies: FTC will investigate "Big Six" – chemical industry is one N	July	22	23
Pennsylvania makes it tougher on polluters	Aug	12	12
Pesticide industry: ecology faction	Oct	14	22
Pesticides producers ordered to reword	Aug	5	21
labels on nine products R Pollution: States look to Supreme Court	Nov	11	23
to settle sticky pollution cases Pollution suits in Texas. Goodyear Tire & Rubber settles Harris County water pollution suit; will install water treat- ment equipment at synthetic rubber plant in Houston; Armco Steel	Dec	23	15
faces suit on Houston, Tex. plant N Pollution see also Air Pollution, Environ-	July	22	10
ment; Water Pollution Power-plant site selection overhaul			
sought by White House	Oct	14	21
claims that pollutants caused the deaths of livestock	Sept	9	9
restrictive legislation	Sept	16	62
Stockpile disposal bills: Nixon signs bills for disposal of 17 stockpiled materials N	July	22	23
Sulfur would get import protection under a bill introduced by Sen. Long N	July	29	23
Imports may be curbed by new bill (chart)	Aug	26	15
Tetracycline cases: Five major drug companies got a federal court okay to settle damage suits brought			
against them N Texas charges New Mexico cattle ranchers with pollution of Canadian River by spraying the hard pesticide toxaphene	July	1	9
on range grass to kill caterpillars Trade bill see Tariffs — Trade bill Trade quotas only spell trouble — View-	July	15	25
point U.S. Court of Appeals R	Aug	5 18	5
Urethane technology in the courts (table)	July	8	14
Utah's rights to Great Salt Lake mineral	Oct	21	24
bonanza get new support. Vermont is suing New York and Inter- national Paper over alleged pollution laxity.	Dec	16	18
VAM: Bayer charges National Distillers with patent infringement	July	15	27
Water pollution: Federal 1899 pollution law may hurt more chemical com-			
panies Water pollution: Justice Dept. decision to restrict enforcement of 1899 Refuse Act to "accidental and infrequent" discharges of pollutants draws angry	Aug	5	26
reactions Water pollution: 1888 pollution law being used to help clean up N.Y.'s busy	July	22	16
harbor	July	29	16
Asarco will close Selby lead smelting			
and refining plant N Lead-in-gasoline controversy see Gasoline	Aug	5	17
Prices N July 15-66, N Aug 19-85 N Prices: lead alkyls and TEL and TML	Sept	9	41 15
Lear, William — Fluorinated hydrocarbon		22	
Leasing	Dec	16	60
FTC will issue complaint against tire makers requiring end to leasing arrangements with bus companies N Interior Dept, proposal would grant so-dium-mining leases in oil-shale areas	Nov	11	14
to private companies	Dec	2	20
(three-in-one) against common measles, mumps and rubella developed N	Dec	23	23
Liberia – World's leader in total carrying capacity of tanker ships registered	Nov	11	21
Libya			
Confiscates property belonging to Italians and Jews N Continental Oil agreement regarding posted prices of crude oil and tax		5	80
provisions	Sept July	30 8	17 10
Power-Gas N	Oct	7	14
Lime — Pfizer plans capacity increase at Gibsonburg, O., plant N	Aug	26	11
Armour's Armeen L-9 (2-amino nonane)			
plays a key role in a new lithium flo- tation process N Chemical prices N Foote Mineral's Chairman Bliss sees		2 23	90 22

		4.0	**	Americas N	Sept	23	12	Rohm & Haas: F. Otto Haas, president			
Lithium Chloride - Great Salt Lake pro-	Nov	18	44	Corco restructures its management	July	1	15	moves up to chairman of the board; Ralph Connor becomes chairman			
duction pace quickens	Dec	9	45	Companies give help to employees					Aug	12	9
senger boy	Aug	26	36	Cosden: You can be small - and	Oct	28	41	brings a global view to the pre-	Sept	2	106
Lubricants Automobiles: needed – products for	Aug	26	13	profitable	Dec	2	48	Royal Dutch/ Shell considers itself in the top dozen chemical producers in	Зерт	2	100
	July	15	65	who continues as chairman and chief executive officer	Dec	23	14	the world; plans to double its invest- ment in chemicals; studing the feasibility			
Jet-engine lubricant from Monsanto undergoing evaluation tests R	Aug	5	27	Dow regroups research to focus on		29	40	of shipping LNG from Nigeria to U.S.	Sept	30	24
Sperm oil: Interior's listing of sperm whales as an 'endangered species' may				Dow's DIG new director William Nummy:	July	29	40	The sales manager: not much change in	Dec	9	35
cut off supplies of sperm oil for use	hatea	29	25	He's a reformed city boy who digs Midland	July	29	44	Shell moving out of NYC by mid-			
as a lubricant	July	23	25	Drug abuse: The drug problem is your problem — Viewpoint	Nov	4	5	71 N Stauffer sees opportunities for growth	Oct	21	17
Du Pont will expand its Mylar plant . N	July	8	32	Drug abuse: firms seek answers to growing employee problem	Nov	4	66	in solving problems (chart)	Oct	14	49
L'Air Liquide's oxygen unit to supply steel company Arbed R	Sept	2	85	Du Pont, Pierre IV: Mr. du Pont goes				Barr: A young man who's made it in the Establishment	Nov	4	72
steel company recover 111111111111				to Washington Du Pont's vice-president Irving	Nov	25	43	Tenneco reshuffles management set-up,			
				Shapiro: He found law easier than child's play	Sept	9	64	Consolidates functions	Oct	14	19
				Eastman Chemical Products will form	July	1	10	signs, will become chairman of the board's executive committee; re-			
M				Eastman Kodak's president, Gerald	July		10	placing him president H.W. Ritchey and Robert Davis will take over as			
				Zornow: Athlete-salesman makes the right decisions	July	1.	48	president and chief operating	Dec	23	14
Machinery - Orders for non- electrical machinery	Sept	2	28	Enjay moving corporate head- quarters to Houston, Tex	Oct	14	19	Officer Thiokol's program for teaching and	Dec	20	1.4
Magnesia — Pfizer plant in Ireland R Magnesium — Ugine Kuhlmann-Pechiney	Oct	7	43	Foremost-McKesson's president William Morison: Happiness is weekends at				training the disadvantaged turns into new business	July	22	41
will up production at Pyrenees mountain complex	Oct	7	42	his own ranch	Sept	16	78	Ugine Kuhlmann reorganizing it chemical operations; sets up two			
Magnesium Chloride – Great Salt		9		Freeport Sulphur): He's been a rock	L. Air.	0	40	new companies	Aug	5	84
Lake production pace quickens	Dec	9	45	General Tire & Rubber's Chemical/	July	8	48	v-p and general manager of Chemical Div. — His mission: double division			
Magnetics "Magnetic bottle", Tokamak, may be key				Plastics Div. vice-president and general manager James Hostettler: Salesman-				sales by '75	Dec	2	56
to controlling fusion reaction Friskem, an electromagnetic screening de-	Dec	23	27	coach now manages business team Goodrich, B.F. opens new world head-	July	22	48	USI: Closing in on the top 10 Ventron: maturity brings push for per-	Sept	16	65
vice to foil aircraft hijackers N	Sept	23	49	quarters in Akron, Ohio	Oct	14	20	formance in chemicals	Dec	16	63
Maintenance				of \$1 billion; W. Brown, new president				Viewpoint	Sept	2	5
Chemical companies seeking the best way to keep their process control computers			-	and chief executive officer (charts & table)	July	15	37	firms "It's up to you". Meyer Lurie	Sept	2	37
in working order Costs moving upward: it costs 10 to 15%	Nov	4	59	Hoechst's chief executive Rolf Sammet: He knows how to get to the top	Oct	14	60	Manganese - Copper-manganese alloy that will dampen nosie developed N	Aug	12	33
more each year to keep plants run- ning (table)	July	29	29	Hoover Ball and Bearing Co Self- help means more profit	Oct	21	23	Manpower, Technical			
Malaysia				ICI's new chairman will be Eric Callard R ICEC's Emil Finley - president: This	Nov	18	46	Chemists: Five-year study shows major reduction in employment of chemists			
PVC plant using a Sumitomo process to be built	Aug	5	80	Englishman found the going easier in	Aug	19	110	(table)	Dec	16	15
Rubber tree growth stimulant promises				U.S. Correction – letter	Sept	9	5	N.J., plant again last week	Dec	16	17
big boost in latex yield	Aug		73	The lobbyist: part trouble shooter, part messenger boy	Aug	26	36	scientists remain grim N	Nov	18	113
ned	July	1	31	Mallinckrodt's Thayer: Reiterates firm's goal of outpacing both industry,				Europe's chemical companies plan cut backs on personnel N	Dec	16	37
Maleic Anhydride Monsanto's plant in England will use				economy	Sept	23	17	Japan will face a shortage of trained research personnel	Sept	2	81
Scientific Design process to boost capacity	Oct	14	14	to chairman of the board and chief				Layoffs now coming in the CPI will affect professionals and researchers			
Petro-Tex plans additional capacity for				executive officer; Raymond Herzog to president	Aug	19	27	more heavily than production workers Monsanto cuts back	Dec	2	22
Houston plant			18	Mitsui Toatsu's Toshio Sueyoshi: Keeps his cool when going is rough	Dec	16	68	Pharmacists in N.Y. will up wages as	Dec	23	15
plant	Oct	14	22	Mobil Chemical's president Ray Adam: A Texas oil man who's learned to live				result of new contract	Oct	28	20
Management Acquistions and mergers see Industry				in the East	Aug	26	42	with the public are reshaping his role Research technicians: Will shortage slow	Nov	11	45
Developments and individual com- pany names in Company Index				help to trim costs \$20 million in	Dec	23	15	research in '70s? (table)	Sept	30	35
Akzona's president and chief executive Cluade Ramsey: He keeps on top of				'71 Montedison: Bruno Janni and Guido				salaries and cost of support facilities going up rapidly (chart)	July	22	30
his job and the world around him	Nov	/ 11	56	Molteni resign N Merzagora, Cesare resigns N	July Oct	22 28	39 43	The sales manager: not much change in	Dec	9	35
Alcoa puts an engineer on top; W.H. Krome George new president	July	y 1	15	Campilli, Pietro named to the chair- manship N	Dec	23	31	15 years — CW survey (charts)			
Alcoa's Eric Walker He was graduated from the halls of ivy to big business	Oct	21	104	Montedison's reorganization involves grouping into 10 divisions (table)	Oct	7	40	at the ACS meeting		23	49
Alcohol and drugs – growing problems faced by management	Nov	v 25	16	Nader, Ralph, eyes studies of Du Pont,	July	1	14	to resist?	Nov	18	48
Allied's F. Bissinger elected president of SOCMA	Dec		13	Natural gas companies' diversification	July	,	14	Manufacturing Chemists' Assn. Air pollution irks MCA	Sept	16	24
Two new jobs for a heavy man Allied's chairman and chief executive of-	Dec		54	into chemicals is losing its urgency as natural gas shortage impels major pipe-				Conversion to metric system could cost			
ficer John T. Connor sees light at				line transmission companies to scurry for new reserves	Sept	30	13	chemical industry about \$1 billion over a 10-yr period	Oct	7	19
tunnel's end for sluggish giant	Au	g 12 g 12	27 36	Needed: "no" men in high places — Viewpoint	July	1	5	Job health and safety bill pushed	Oct Nov	14 25	22
Allied's James Spain says more minority hiring needed, at AMA con-				New Jersey Zinc: Glenn Wilson elected president	Dec	23	14	Meeting (20th semiannual): draws a bead on environment, productivity and			
ference on education and training American Hoeschst's Somerville, N.J.	Au	g 12	9	Nuclear Fuel Service's president Robert	Dec	25	14	exports	Dec	2	21
complex AMA's activities in Japan will broaden	. Oc			Miller: A new coaching job for veteran of Little Leagues	July	15	96	will get Senate okay this year	Nov	25	13
Amoco-Avisum consolidation creates \$320-million chemical maker				Ott Chemical's president William White Jr.: He likes the autonomy of a small				Marine Specialties Aluminum industry gets boost from the			
ARGO: A chemical arm with lots of	. Jul			Pacific Vegetable Oil's board chair-	Sept	23	58	results of the recent Onion Patch			
BASF's Bernhard Timm chairman of the	. Ser	pt 2	57	man Frederick Cartwright: An out- spoken entrepreneur	Dec	23	48	America's Cup: Pace-setter for boating	July	8	
board: Physicist, pilot zooms com- pany to new heights	. Au	ig 5	90	Petrofina plunging deeper into petrochem-		2	47	chemicals	Sept	9	48
BASF's executives tour U.S. operations: company re-evaluating worldwide in-				Plant manager: New challenges of deal-	Dec	2		rials: used in the mast of the Intrepid	N Sept	30	31
vestment program, no major acquistion plans seen	s . Ju	ly 22	18	ing with the public are reshaping his role	Nov	11	45	Marketing Camp Chemical boosts sales 70% with			
BASF's U.S. operations may be con-				"Progressive management" survey: How would you rank them? — Behind the				accent on marketing	Dec	9	29
BASF's Wyandotte Corp. new company	N Ju			Reichhold: On the recovery road	Oct	21 18	5 91	Celanese teaching distributors how to sell solvents	Aug	19	86
comes into being Dec. 31	N De	ec 2	13	Reichhold's Henry Reichhold board chairman, chief executive officer and				Chemical distributors wrestle with sliding sales and profits (chart)		28	31
Wall Street view: tough to borrow	. Se	ot 30) 40	general manager: Nearing 70 with no sign of letting up	Nov	18	134	Computer data services help companies find markets, customers		16	
for pollution equipment				Hemington Arms' vice-president and	7409	10		Computer time-sharing helps on-line order-entry system speed product			
chemical companies Black-owned Ascension Chemical: a	. Ju			general manager Philip Burdett: He's no marksman, but he calls shots for		00	Fe	distribution	Aug	12	2 22
chemical industry first				top gun firm	Oct	28	56	cost, speeds delivery		23	3 43
Celanese's world headquarters to be built on N.Y.'s Avenue of the				force management to take a closer look at 'portable' pension plans	Nov	11	31	by systems analysis (chart & tables)		2	92

Home-sewing market gets push from	Cons	2	24	sales rights-from Du Pont	Sept	16	25	mouthwashes, producers have 30 days			
Market data on tape: PACEX Capacity Data Bank	Sept Sept	2 23	43	Methacrylate — Future bright as brightly colored signs and tinted glazing catch on, boost sales	Sept	2	79	to substantiate label claims that their products have germ-killing power Makers change formulas in wake	Aug	12	10
	Oct	21	32	Methanol				of FDA crackdown Munitions – Army's contract for pro-	Aug	19	24
Methacrylate's future: color it bright as brightly colored signs and tinted			20	AKZO and DSM joint unit at Delfziji . N Chemcell's plant completes partial		18	73	duction of illuminating cartridges goes to Thiokol N	Sept	2	17
Nader, Ralph, eyes studies of Du Pont,	Sept	2	79	conversion to methanol catalyst N Du Pont trade secret suit against pro-	Sept	9	55				
Justice Dept. and FTC	July	1	14	fessional photographers Rolfe and Gary Christopher for spying: court rules							
	Oct	21	31	for Du Pont N Italy-Algeria joint venture to build plant	July	29	12	N			
April and Hume work up a way to mea-	Dec	2	44	at Arzew, Algeria N Libyan plant near Benghazi N	Dec July	2	51 10	14			
Naterials handling - report, G.V. Schultz	Nov	18	77	Methchem plans plant N	July	22	9	National Acadamy of Sciences - Re-			
Medical Developments - Fuel cell that operates on human blood, and might				Prices	Dec Nov	16 18	45 74	port says the nation is in for a health- care crisis by the turn of the century			
power an artificial heart, demon- strated N	July	8	40	West Germany: ELF-ERAP's unit near Manheim	Nov	25	32	unless biomedical research is ad- equately funded N	Dec	9	50
Aedical Developments see also Health				Methyl Methacrylate — Methacrylate's future: color it bright as brightly				NASA			
Aelamine European markets reeling under im-				colored signs and tinted glazing catch on boost sales	Sept	2	79	Ames Research Center demonstrates fire-retardant paints and foams to pro-			
pact of new capacity and proc-	Aug	5	60	Methylamines - Italian plant at Marano , R Methylene Chloride - Prices N	Nov Sept	18	74	tect airplane passengers from on-the- ground fuel fires following a			
Furniture market (table)	Sept	30	23	Metric System				crash Dipeptidyl aminopeptidase can take apart	Oct	21	26
U.S., Japan, and West Europe new big plants, process change, may help ease				Conversion to metric could cost chemical				proteins by starting at the head of the			
the shortage (chart)	Oct	21	32	industry about \$1 billion over a 10-yr period	Oct	7	19	protein chain and removing two amino acids at a time	Aug	12	33
for difficult mixture separations - ACS meeting	Sept	23	46	NASA adopts metric system for some publications	Oct	7	48	Metric system adopted for some pub- lications N	Oct	7	48
Merck Institute for Therapeutic Research — Vaccine (three-in-one) against common				What would adoption of the metric system mean to the U.S.? N	Nov	18	114	Researchers devise a way to make water and oxygen from lunar soil N	Dec	2	43
measles, mumps and rubella developed . N	Dec	23	23	Mexican Institute of Chemical Engineers — Denver meeting discusses pollution				National Agricultural Chemicals Assn. — Mrak, E. avers there is no evidence that			
Mercury Crawford & Russell's system for re-				control	Sept	9	51	minute pesticide traces in food cause harm to the human organism N	Oct	7	13
moving mercury continously from	D	10	FO	Mexico Alumina and mixed fertilizers from				National Assn. of Manufacturers — Bissinger, Frederick, SOCMA's new			
Demand dropping, prices are on the	Dec	16	59	alunite rock	July July	29 8	31 33	president: Two new jobs for a busy	D	0	54
skids (table)	July Sept	22	26 14	Electrolysis chlorine-caustic plant R	July	8	33	man	Dec	9	54
measure mercury in parts per billion . N	Dec	2	44	PV butyral plant will have Japanese participation	Dec	2	51	National Assn. of Purchasing Management Buyers predict upturn	Dec	16	18
Monsanto Enviro-Chem's Brink mist eliminators can recover mercury from				Michigan State University				Trend is up for chemical prices	July	15	32
the hydrogen streams of mercury cell	Dec	9	50	Biochemists suggest new way to kill in- sects: Starve them of cholesterol N	Dec	16	60	Cancer — Set up to assess the nation's cancer research effort and to speed it			
Paint fungicides: nonmetallics may paint mercury into a corner	Oct	21	83	Collembola and the soil mite thought to produce an enzyme that de-				National Plastics Exposition ('71) — Will	Aug	5	24
Seed treatment row, Nor-Am wins in- junction against suspension of	occ	21	00	grades DDT to its derivative DDE Military Applications – Buying of CPI	Sept	9	15	have nearly 240,000 sq. ft. of exhibit space	Oct	14	22
Panogen July 22-27,	July	29	16	products is dropping	Nov	18	49	National Science Foundation — Govern- ment-supported basic research may get	Oct	14	26
USDA's right to ban sales upheld by US Court of Appeals	Nov	18	46	Warfare, Defoliation Chemicals, Munitions, U.S. Army, U.S. Navy				additional funding next year	Oct	28	20
Test for excess mercury in canned tuna fish will begin this week N	Dec	16	24	Miller, Robert - NFS' president: A new				National Sporting Goods Assn. – Hunting market	Oct	28	37
Ventron's process for recovering mercury in waste streams	Dec	16	59	coaching job for veteran of Little Leagues	July	15	96	National Women's Strike Coalition will boy- cott some chemical specialties	Sept	2	26
Allied to limit discharge into the				Minerals Exploration				Natural Environment Research Council Lab. — Portman says dumping of toxic wastes			
Onondaga Lake N Federal 1899 pollution law may hurt	Sept	23	12	Kerr McGee copper discovery near Patagonia, Ariz	Sept	30	17	should be banned entirely	Nov	25	31
more chemical companies	Aug	5	26	Ocean mining see Underwater Mining Utah's rights to Great Salt Lake mineral				Natural Gas Alberta Gas Trunk Line expects to file pre-			
becloud state actions FWQA will have GAF plant at Linden,	Sept	9	20	bonanza get new support	Oct	21	24	liminary application with NEB for building pipeline from Arctic N	Nov	4	10
N.J., closed if it does not stop dis- charging mercury into the backish,				may be answer to problems of mining potash from Cane Creek mine N	July	22	33	Algerian imports: El Paso and Columbia Gas file applications to import LNG in			
tidewater area called Arthur Kill N Georgia-Pacific mercury pollution	July	1	39	Mining see also Underwater Mining Missiles - Thiokol wins Minuteman con-				special cryogenic tankers, propsects of recovering olefinic feedstock height-			
row	Aug	19	23	tract	July	15	26	ened	Sept	30	21
Georgia seeking out possible sources of mercury contamination N	July	8	9	speeds mixing, cuts power needs	Oct	7	56	pipeline from Texas Panhandle across Okla, to Wilburton, Okla.			
Ohio goes right to the top to sue Dow and Wyandotte over mercury dis-				boom in back-to-nature	July	15	56	Blimps could make a comeback to trans-	Nov	11	23
Savannah River fish catches may con-	Oct	21	25	Modernization – How modern is U.S. industry – new study McGraw-Hill's	0	2	10	port natural gas and oil	Sept	16	23
tain hazardous amounts of mer- cury N	July	29	11	Economics Dept	Dec	2	19	plies to NEB for export license to ship gas to U.S	Nov	4	10
Texas warned to stop companies from dumping mercury in the state's				ICI process injection-molds stiff plastic over foamed core; auto mar-				Canadian NGL for U.S. approved	Oct Sept	7	37
waterways N Tighter limits on mercury discharges	July	22	10	ket is first target Polymer Materials will double cellulosic	Sept	23	53	Coal gasification to make pipeline gas has to come in the U.S. says IGT's H.			
as U.S. moves to ban discharges by industry in 17 states	July	22	35	molding and extrusion compounds capacity	Oct	21	26	Columbia Coal Gasification Corp. set up	Dec	23	23
- letter	Sept	2	14 27	Rubber companies give injection-molded			20	to develop a low-cost, direct substitute for natural gas from coal N	Dec	23	23
Metallurgy - Duval discloses pollution-	July		21	Monks Wood Experimental Labs. –	Nov	11	20	Companies' diversification into chemicals is losing its urgency as natural gas short-	Dec	20	23
free, hydrometallurgical system of pro- cessing copper ore concentrates	Aug	12	12	Mellanby says dumping of toxic wastes should be banned entirely	Nov	25	31	age impels major pipeline transmission companies to scurry for new			
Metals				Monomers				reserves	Sept	30	13
Australia: companies to pay ore royalties	Nov	25	16	ARC Chemical will produce specialty monomers	Dec	9	14	Companies propose pooling funds for exploration program	Oct	7	17
Can-maker talks could affect labor picture for nonferrous metals	Nov	25	14	Continental Oil evaluating VC monomer	Oct	7	42	Creole Petroleum plans LNG plant for Venezuela	Sept	2	81
Du Pont setting up European facilities to formulate precious metal com-				DSM building pipeline to link VCM unit at Tessenderloo, Belgium with PVC				FPC asked to authorize 50-100% gas	Aug	19	31
positions for thick-film micro- electronic circuitry	Oct	7	42	plant at Beek, Holland	Oct Sept	21 23	73 22	price increases N FPC asked to delay natural gas hike till	Sept	2	32
				Ethylenimine monomer prices N Styrene monomer plant in Yokkaichi,				shortage is determined N FPC chief Nassikas. May be necessary to	Sept	16	17
Foote Mineral's Chairman Bliss sees	Nov	18	44	VAM: Bayer charges National Distillers	July	8		curtail gas service to make do	Sept	2	25
Foote Mineral's Chairman Bliss sees steady growth				with patent infringement	July	15		prices	Aug	5	24
Foote Mineral's Chairman Bliss sees steady growth	Dec	2	43	VCM plant near Toufen, Taiwan F	July	29	26	- letter			
Foote Mineral's Chairman Bliss sees steady growth lon-exchange method of snaring pre- cious metals from acid solutions under- going feasibility studies				VCM plant near Toufen, Taiwan F VCM plants and pipelines planned by Solvary for Jemeppe complex F		29		FPC setting ceiling on gas prices	Sept	9 28	18
Foote Mineral's Chairman Bliss sees steady growth lon-exchange method of snaring precious metals from acid solutions undergoing feasibility studies	Oct	14	41	VCM plant near Toufen, Taiwan F VCM plants and pipelines planned by Solvary for Jemeppe complex F Monosodium Glutamate – Imports hurting				FPC setting ceiling on gas prices letter FPC streamlining its approach to natural	Oct Nov	28 25	
Foote Mineral's Chairman Bliss sees steady growth lon-exchange method of snaring precious metals from acid solutions undergoing feasibility studies Nonsanto's new process for continuous spinning of uttrathin metal filament Nonferrous: A good year coming, say industry experts	Oct			VCM plant near Toufen, Taiwan			38	FPC setting ceiling on gas prices — letter FPC streamlining its approach to natural gas pricing N Fluor Canada will engineer Imperial Oil's	Oct	28	18
Foote Mineral's Chairman Bliss sees steady growth lon-exchange method of snaring precious metals from acid solutions undergoing feasibility studies . N Monsanto's new process for continuous spinning of ultrathin metal filament . N Nonferrous: A good year coming, say industry experts . Nonferrous metal prices N Aug 19-85, N Pollution: federal surveys to determine	Oct	14 28	41	VCM plant near Toufen, Taiwan F YCM plants and pipelines planned by Solvary for Jemeppe complex F Monosodium Glutamate — Imports hurting MSG; U.S. producers quitting the business — Foremost-McKesson's Morison, William — Foremost-McKesson's president: Happiness is weekends at his	3 July July	22	38 28	FPC setting ceiling on gas prices letter FPC streamlining its approach to natural gas pricing. Fluor Canada will engineer Imperial Oil's natural gas liquids extraction plant R Fuel shortages threaten raw material feed-	Oct	28 25	18
Foote Mineral's Chairman Bliss sees steady growth lon-exchange method of snaring precious metals from acid solutions undergoing feasibility studies N Monsanto's new process for continuous spinning of ultrathin metal filiament N Nonferrous: A good year coming, say industry experts Nonferrous metal prices N Aug 19-85, N Nonferrous metal prices N Aug 19-85, N	Oct	14 28	41	VCM plant near Toufen, Taiwan . F VCM plants and pipelines planned by Solvary for Jemeppe complex . F Monosodium Glutamate – Imports hurting MSG; U.S. producers quitting the business Morison, William – Foremost-McKesson's	3 July	22	38 28	FPC setting ceiling on gas prices — letter FPC streamlining its approach to natural gas pricing N Fluor Canada will engineer Imperial Oil's	Oct Nov July	28 25 29	18 5 23

Louisiana tells gas producers: boost out- put or face higher taxes	July	8	15	Will build giant plant at Pasadena, Tex N	Oct	14	13	Oxygenation			
Natural gas pipelines safety regulations				Grace plans NTA plant in Canada NTA needs study — letter	Aug Sept	19	26 14	Oxygen producers zero in on waste treat- ment (chart)	Mari	4.0	0.0
Safety bill draws barrage of union	Aug	26	18	Replacement for detergent phosphates	Selvi	2	14	ment (chart)	Nov	18	95
Netherlands: Lower prices may spur	Oct	7	17	should push formaldehyde growth (table)	Sept	16	59	oxygenation will be tested in NYC's Newtown Creek plant N	July	22	22
European use of Dutch natural					oupt		30	New Jersey's Middlesex authority		22	33
gas Netherlands predicts production in-	July	15	26	Nitrogen Australian producers protest elimination				chooses Unox for sludge treatment , N	Oct	7	48
crease	Sept	9	56	of subsidies Chemetron's Belle, W.Va., onsite plant	Nov	11	38				
Northern Natural Gas proposes natural gas line from Empress, Alta. to North				capacity doubling; completion set for							
Branch, Minn. to tie in with a third				Feb. 71 R	Dec	9	14	P			
segment from Alaska N NNG's pipeline would bring as much as	Aug	26	11	Nitrogen Oxide — Auto emissions will be reduced 90% with new nickel-copper							
508 million cu,ft/day of gas from Can-				alloy catalyst	Oct	21	88	Backening			
ada to the Northern Plains — FPC defers action	Dec	9	13	stabilize 1,1,1-trichloroethane devel-				Packaging Dow posting higher tags on packaging			
Pipelines: research project to find out how				Oped N	Nov	4	64	products	July	8	27
feasible it is to bring natural gas from Alaska's North Slope and from northern				Nitrous Oxide — Ghana's plant R Noise — Copper-manganese alloy that will	Sept	2	87	FDA rules see Food & Drug Adminis- tration			
Canada to central Canada and U.S.	1.0	00	00	dampen noise developed N Norway – Silicon expansion at Meraker's	Aug	12	33	The gift package: glittering market for			
Midwest	July	22	23	Koppera plant	July	8	33	chemicals	Dec	16	27
link oil and gas areas	July	1	18	Nummy, William — Dow's DIG new dir- ector: He's a reformed city boy who digs				Materials: A good year coming, say in- dustry experts	Oct	20	10
concerning success N	Aug	5	59	Midland	July	29	44	National Distillers will close Shorko,		28	18
Austral Oil and AEC production	Mov	4	10	Nylon				Antwerp plant Water-degradable polymers: Organic acids	July	15	27
Rates: increases, cuts and some pleas for	Nov	-4	18	Air safety bags: four man-made materials				that can be polymerized then slowly de-			
assistance	Sept	30	15	under construction N Carpet-grade continuous-filament nylon	Sept	23	11	graded are basis for packages, controlled- release pesticides, drugs	Sept	2	65
of shipping LNG from Nigeria to U.S.				Drices N	Sept	30	21		Sept	2	05
East Coast	Sept	30	24	Du Pont's Qiana fiber prices N Goodyear answer to oil spills: huge	Nov	11	27	Paint Fire-retardant paints and foams to protect			
celona, opened N	July	1	31	flexible bags to tow away oil pumped	0	00		airplane passengers from on-the-ground			
Synthetic natural gas from oil could be the forerunner of a series of similar				from disabled tankers	Sept	23	19	fuel fires following a crash Lead paint poisoning prompts a look into	Oct	21	26
plants	July	8	30	de Sinteticos' plant	Nov	11	23	three bills to regulate the labeling and			
Tenneco's pipeline system expansion plans	July	22	9	Hunting market — nylon gun	Oct	28	37 84	sale of such paints and help communit- ies remove lead paint from old buildings	Sept	2	24
Texas: gas-gathering system from western				region molding prices	Oct	14	28	Paint fungicides: nonmetallics may paint			
Texas gas reserves to Dallas R Transcontinental Gas Pipe Line files	Sept	30	17	Nylon-4 - CO ₂ initiation: secret to successful nylon-4 polymerization	Sept	16	67	mercury into a corner	Oct	21	83
application to build major interstate gas				- letter Oct 21-14, (letter)	Oct	28	5	in paints	Sept	23	49
line in the newly developed areas off the Texas shore	Aug	19	18	Nylon-b/b — Japan's Asahi and Rhone-	Aug	12	16	UC's paint latex plant at Alsip, III., under construction N	Oct	28	13
Underground storage reservoir project in				Poulenc agree to swap nylon salt used in production of nylon -6/6	A1			Pakistan - Ethylene plant to be built by			
Louisa County, Iowa R Naval Stores – Supplies of naval stores will	July	8	20	Nylon-12 — Cyclododecane for nylon-12:	Nov	4	56	LurgiN	Aug	5	80
remain tight through '75 (table)	Dec	2	32	new process developed N Nylon Salt – Japan's Asahi and Rhone-	Sept	2	89	Paper API's annual meeting: Pulp and paper-			
Netherlands				Poulenc agree to swap nylon salt used in				makers can expect a "higher level of			
AKZO and DSM joint methanol unit at Delfzijl N	Nov	18	73	production of nylon 6/6	Nov	4	56	business" in residential construction Brazil's new paperboard mill on the Rio	Nov	25	16
Du Pont's Delrin acetal resin plant in	INDV	10	13					Negro, at Tres Barras N	July	1	10
Dordrecht, Holland N DSM building gas plant at Geleen R	Sept	23	39 42					Fitchburg develops no-copy paper for use with special ink to prevent the reproduc-			
DSIVI WIII DOOST PVC capacity	July	22	38	^				tion of newsletters and other documents			
Ethylene: Dow names contractor for sec- ond unit at Terneuzen R		7	43	U				for limited distribution	Nov	18	110
Contracts for feedstock N	Dec	9	20					chemicals	Dec	16	27
Ethylene oxide unit at RD/S complex , R Goodrich-Goodyear battle for control of	Dec	16	40	Oats - Food conference focus: new sources and kinds of future foods				Glassine and specialty packaging paper prices	Sept	2	75
Vredestein	July	8	17	Obsolescence - How modern is U.S. indus-	Aug	12	32	Kenya pulp and paper mill R	Sept	2	87
Hoechst's third phosphorus furnace at Flushing	Aug	12	16	try - new study by Mc-Graw-Hill's Econo mics Dept,	0.			Kraft paper prices N Linerboard and corrugating medium paper	Aug	19	85
Natural gas: lower prices may spur	Muy			Ocean exploration and mining see Linder	Dec	2	19	prices	Sept	2	75
European use of Dutch gas Natural gas production increase pre-	July	15	26	Odor Control - Canadian International				U.S. paper and paperboard capacities are on the upswing	Nov	11	22
dicted N PVC plant at Pernis for BICM R	Sept	9	56	Paper's alkaline sulfite pulping process					1404	11	22
Salt plant in northern Holland R	July	22 8	38 33	will yield pulp at least as strong as sul- fate pulp, without the usual strong odors	Aug	26	21	Patents Cabot denied Japanese patent rights on			
Sultur remelting capacity upped;				Oil Shale see Shale Oil	Aug	26	31	its oil-furnace carbon black process . N	Aug	19	97
Prices N Western Europe faces ammonia glut as big	Oct	7	37	Oils & Fats				Dart Industries files judgment on Ziegler patent in battle over polypropylene			
plants start up (table)	July	8	15	Edible oil prices N	Aug	19	85	catalysts	Aug	5	69
Niacin				Sperm oil: Importers of whale oil pro- testing the Interior decision to place				man "infringing" upon patent used in			
B vitamins' shortage is now worldwide; niacin and niacinamide critically				sperm whale on the 'endangered				processing polyester fibers for carpets and apparel	Dec	0	
tight	Oct	28	28	species' list	July	15	26	haster handling of antipollution patent	Dec	9	14
Lonza's huge new plant threatens makers with overcapacity	Nov	25	25	whales as an 'endangered species' may				applications is paying off N Holosonics purchases exclusive license to	Sept	9	55
Niacinamide B vitamins' shortage is now		20	20	cut off supplies of sperm oil for use as a lubricant	July	29	25	acoustical holography patents from Holo-			
worldwide, niacin and niacinamide crit- ically tight	Oct	28	28	a lubricant	Dec	23	46	tron Corp	Nov Dec	18 16	113 59
Nickel				Olefins				Mitsui acquires Snam Progetti patents for		,,	00
Freeport Sulphur diversifying into cop-				Algerian natural gas is reportedly rich				making aromatics, isoprene monomer and polymer and PE R	Aug	12	16
per, nickel and asbestos	Oct	28	21	in olefinic precursors; El Paso and Columbia Gas plan imports N	Sept	30	21	Urethane technology in the courts			
aluminum futures	Nov	18	104	Sun Oil's East Coast plans shelved N Optical Brighteners — Sweden finds optical	Dec	9	7	Pauling, Linus – "Vitamin C and the Com-	July	8	14
New Caledonian Nickel will double			-	brighteners in fat of fish taken from dis-				mon Cold" - book N Dec 9-49 Pennsylvania's Dept, of Mines & Mineral	Dec	16	56
Supply and demand are returning to bal-	July	15	32	charge areas of two cities N	Aug	5	69	Industries - Mine water demineraliza-			
ance "somewhat earlier than we ex- pected" says Inco's Wingate	Dec	22	10					tion plant at Wilkes-Barre, Pa N Perchloroethylene — Prices N	Oct	28	14
	DO.	23	16	Organic Chemicals				171000 17111111111111111111111111111111	Зерт	9	41
Army makes public the bids for the				French production increased N	Aug	5	79	Perfumes			
nitric acid plants in its \$70-75-million				Some major organic chemicals boomed in first quarter '70 but output of others				American beauty: a \$4.6-billion market			
ordnance modernization program N Army nitric acid plants: did the Army	July	1	9	was down N	July	1	28	in cosmetics, toiletries - report. Patricia L. Layman (tables)	Oct	21	54
goof on bids? (chart)	Aug	19	103	Ortho-xylene — Teijin develops new approach to making polyester for fibers N	Nov	25	27	Rhodia's new route to fragrances: cataly-			
Corps of Engineers contract for three plants goes to D.M. Weatherly Co R	Aun	5	27	Ovens - National Steel orders 87 coke				tic reactions convert isoprene to terpene chemicals	Nov	18	109
Czechoslovakian plant N Escambia plans expansion at Pensacola,	Aug	5	80	Oxidation - Partial oxidation of fuel oil	Nov	11	13	Peroxides – Japanese plant	July	8	34
Fla, fertilizer complex	July	15	26	to hydrogen	Nov	11	41	reduce cycle times in polymerization	Aug	5	53
Nitric acid pulping process may get tryout in Oklahoma				plant will switch to oxychlorination pro-				Peru — Fishing boats made of polyester reinforced glass fiber under construction.	Nov	4	16
Prices N	July Dec	15 16	79 45	cess employing only ethylene N	Oct	7	48	Pesticides see Insecticides	1404	4	10
Nitrilotriacetic Acid				Oxygen							
Displacing some phosphates despite new				L'Air Liquide's unit to supply Luxem- bourg steel company Arbed R	Sept	2	85	Petrochemicals			
data	July Sept	15	23	NASA researchers devise a way to make				Amoco-Avisun consolidation creates \$320-million chemical maker	July	8	41
	Nov	25	5	water and oxygen from lunar soil N Oxygen producers zero in on waste	Dec	2	43	Aquitaine-Organico: Elf-ERAP and Total		3	
Ethyl may become producer N	July	22	9	treatment (chart)	Nov	18	95	combine almost all their petrochemical operations	Sept	16	18

Argentina: Dow considers Argentine			
partners for ethylene-based petro-			
chemical project in Bahia Blanca N Agreement between Dow and state	Aug	12	15
agencies	Sept	9	56
chemical makers	July	22	16
million/year market by '75 Benzene see Benzene	July	8	34
BP will revamp its chemical operations . Canada: Economic slumps stunts chemi-	Nov	11	21
cal growth (tables)	Nov	25	33
off N Sept 23-12	Oct	7	19
boom; could put pinch on aromatics propylene (table)	Nov	25	11
Fatty acids see Fatty Acids France beefs up in key petrochemical	.,,,,	20	
products (table)	Sept	9	57
stock supplies N	Sept	23	11
GE develops new techniques for proc- ess control Hoover Ball & Bearing blazes its trail to	Oct	21	86
success in chemical and plastics	Oct	21	23
Iranian petrochemical complex at Bandar Shahpur: Allied will sell its investment			
to National Petrochemical N Iranian petrochemical fertilizer complex	Dec	16	37
at Bandar Shahpur dedicated N Israel petrochemical buildup continues . R	Nov Sept	11	39 87
Japan's Petrochemical Industries Assn. wants to ban foreign investments in			
five key petrochemical derivatives N Japanese investments in Thailand may be	July	29	28
jeopardized N Complex in Thailand is a step closer to	July	8	'31
approval	Nov	11	39
complexes in Chiba rejected R Korea petrochemical buildup \$220 mil-	Oct	7	43
lion in new plants (map)	Dec	16	38
Korean complex will produce HDPE and VCM	July	8	33
Oil companies face chemical slowdown	Oct		14
Oil import quotas see Imports	July	22	15
Petrofina plunging deeper into petrochem- icals (chart) Portugal plans petrochemical units	Dec	2	47
Portugal seeks investors for a buildup in	Aug	12	16
petrochemicals Russia to launch big petrochemical proj-	Nov	11	38
ect with U.S. technology SIR plans expansions in southern Italy N	Dec Oct	16 28	15 43
Spanish ethylene plant at Tarragona . N Sweden will boost output N	Nov	18	73 79
Taiwan's petrochemical industry getting top priority (map)	Oct	21	77
Turkey: Petkim planning complex in Izmir	Oct	14	35
N Aug 5-79, Aug 12-16 N Ugine Kulmann merger with Pechiney; petrochemicals will probably be eased			
out	Sept Sept	30 16	24 65
Venezuela: El Tablazo petrochemical com- plex IVP to seek addition credits for	0.0		
Construction	Aug	26	28
petrochemical plants	Oct Dec	7 2	49
Petroleum	000	-	
API annual meeting. Oilmen told of need to spruce up image	Nov	25	14
Belgium hopes for steadier petroleum	Dec	9	20
Blimps could make a comeback to trans- port natural gas and oil	Sept	16	23
Chevron Oil fined \$1 million for failing to	зері	10	25
equip its oil wells in the Gulf of Mexico with storm chokes or similar safety shut-	Sent	2	17
off devices N Collins Pipelines line to carry petroleum	Sept	2	17
products from New Orleans area to Collins, Miss N	July	22	9
Corco restructures its management setup in Puerto Rico	July	1	15
Conoco and Libya agreement regarding posted prices of crude oil and tax pro-	c	20	17
visions	Sept	30	17
propylene (table)	Nov	25	11
FPC considers "deregulation" of gas prices	Aug	5	24
- letter	Sept	9	5
stock supplies	Sept	23 29	11 26
Humble's Linden, N.J. blast alters supply lines	Dec	16	17
Isobutane cracking for petroleum refiners Israel's oil refinery near the Gaza Strip, R	Nov	11	41 87
Italy's petroleum product supplies drop seen in '71 N		25	32
LPG price	Aug	19	85
gasoline capacities at Robinson, III.,		21	26
refinery	Oct	21	26
duction: insulated oil well system will protect the permafrost N	July	29	11
Naptha cracking: new route for making synthetic natural gas	July	8	30
Newfoundland Refining's plans are set for financing new refinery	Nov	4	17

Occidental Petroleum's Maine refinery still			
possible	Sept	16	17
Oil spills see Water Pollution Olefins see Olefins			
Partial oxidation of fuel oil to hydrogen	Nov	11	41
Pipelines in Texas and Wyoming will link oil and gas areas	July	1	18
and petrochemicals buildup	Nov Dec	11 2	38 19
Quaker State Oil to construct a new re- finery in Hancock County, W.Va.			27
Sweden: Pipeline for carrying oil and petroleum products from Gothenburg	Aug	5	
Texas RR Comm, boosts state's allowable oil production in aftermath of hurricane	Nov	18	113
Celia R Trinidad: Occidental awarded oil explora-	Aug	19	27
tion and production licenses N UC may spin off all or part of its oil and	July	29	11
gas holdings	Nov	11	14
of the industry as a whole U.S. petroleum companies face chemical	Dec	23	16
slowdown (chart) Pharmacuetical Manufacturers Assn. — Birth control pill controversy with	July	22	15
AMA N	Aug	19	17
Dow's new adsorption unit will recover	Nov	4	60
phenol and brine from waste stream Dow withdraws special prices N	Sept	16	58
Ghana plans plant	Sept	2	87
to close	Dec	16	45
p-tert,-octyl phenols plant R Union Carbide will double bisphenol A	July	8	20
capacity at Penuelas, Puerto Rico R World's first commercial aniline plant using phenol and ammonia as raw mat-	Sept	9	20
erial built by Mitsui Petrochemical In- dustries at Chiba complex N	July	22	39
Manila	Nov	18	73
Phosphates Algerian phosphate enrichment plant using FluoSolids process	July	8	33
a triple superphosphate unit at Pasca- goula, Miss R Defluorinated phosphate prices N Detergent phosphates see Detergents	July Sept	29 2	19 75
NAPCA awards contract to Chemico to study atmospheric emissions of plants that process phosphate rock N	Aug	26	33
Pennzoil's process to make potassium poly- phosphates as ultrahigh analysis ferti- lizer N	Sept	9	55
Safes N Sodium phosphates prices N	Aug Nov	19 25	85 21
Phosphoric Acid			
Austral Pacific Fertilizers buys liquid phosphoric acid from Fertilizantes			
Fosfatados Mexicanos R Farmland Industries' unit adjacent to	Aug	19	27
Bartow, Fla., phosphate plant R Fosforico Espanol to up capacity N	July Aug	15 26	32 28
Prices	Dec	16 25	45 21
Phosphorus — Dow believes that 80-85% of the waste water recycled in the U.S. is treated by plants that could be converted	1407	2.0	21
to eliminate nearly all the water's phos-	Dec	23	16
Photography - Plastic 'give-away' camera to debut in fall	Aug	5	25
Snapshooter to be sold for about 58¢. Phthalic Acid — Big new plants may upset the phthalic market, hurt prices, but an	Nov	11	21
upswing in auto, home building could restore strength (chart)	July	1	29
Phthalic Anhydride	,		20
C-E Lummus will engineer Finnish plant based on BASF process R	Sept	16	
Prices	Aug	26	27
Geigy expands Paisley organic pigments plant near Glasgow, Scotland R National Lead's titanium pigments capacity upped at Langerbrugge. Belgium	July	22	38
plant	Sept Dec	16	25 41
Alaskan oil: ways to ship North Slope oil studied	Sept	2	23
preliminary application with NEB to build natural gas pipeline from Arctic N Arkansas Louisiana Gas will build a pipe-	Nov	4	10
line from Texas Panhandle across Okla, to Wilburton, Okla Borg-Warner's plastic pipe plant in Vernon,	Nov	11	23
Borg-Warner's plastic pipe plant in Vernon, Calif., closed	Dec	23	18
scale investigation by Ohio PUC N Canada: Consolidated Natural Gas reap-	Aug	19	18
plies to NEB for permission to build pipeline	Nov	4	10

Canada boosts natural gas exports to	Oct	7	37
Canadian NGL for U.S. approved Cold water test: pipeline lowered into ocean in an attempt to produce an	Sept	9	17
artificial upwelling of cold, deep ocean water Collins Pipelines pipeline will carry pe- troleum products from New Orleans	Aug	19	106
area to Collins, Miss N	July July	22 15	9 75
plant at Beek, Holland N Hooker will build pipeline to move brine from Wyoming County, N.Y. to its	Oct	21	73
Natural gas: research project to find out how feasible it is to bring natural gas from Alaska's North Slope and from	July	8	40
northern Canada to central Canada and U.S. Midwest	July	22	23
Natural gas pipelines safety regulations	Aug	26	18
Safety bill draws barrage of union criticism	Oct	7	17
Northern Natural Gas proposes natural gas line from Empress, Alta, to North Branch, Minn, to tie in with a third			
segment from Alaska N NNG's pipeline would bring as much as 508 million cu.ft/day of gas from Can- ada to the Northern Plains — FPC de-	Aug	26	11
fers action	Dec	9	13
that would cover pipeline damage caused	Sept	16	23
by so-called third parties	Sept	10	23
to permit the use of plastic pipe for drainage in commercial buildings	July	1	15
SECT system rights licensed to Thermo Mfg, by Chisso Engineering N	Nov	11	43
Solvay plans new pipelines R Sweden: Pipeline for carrying oil and pet-	July	22	38
roleum products from Gothenburg to central industrial area — report due . N	Nov	18	113
Tenneco's natural gas pipeline system	July	22	9
expansion plans	Sept	30	17
Texas and Wyoming pipelines will link oil and gas areas		1	
Transcontinental Gas Pipe Line files	July	1	18
gas line in the newly developed areas off the Texas shore N A 275-mile coal pipeline will take low-sulfur coal from Black Mesa on the	Aug	19	18
Navajo Indian reservation in Arizona to Fort Mohave, Nev N	July	15	79
Plant location American Bar Assn. studying regulatory activities of governmental agencies concerned with plant location that poses "environmental problems" R	Oct	28	21
American Hoechst's Somerville, N.J. complex will include corporate headquarters, sales, research and	OCT	20	21
manufacturing units	Oct	14	19
nental Europe	Sept	23	39
tables & maps)	Aug	19	51
	Aug	19	5
White House seeks overhaul of present power-plant site selecting	Oct	14	21
Plants — Olin's Saltville shutdown: pollution control costs kill a plant	Aug	19	91
Plusma			
"Magnetic bottle", Tokamak, may be key to controlling fusion reaction Processing system dissociating zircon sand to a composition essentially 70%	Dec	23	27
zirconia and 30% silicaN	Aug	19	97
BASF process for laminating polyolefins	to in	0	20
to glass-reinforced polyesters N Du Pont and Mitsubishi possible poly-	July	8	39
ester film venture in Japan N Du Pont making selective polyester	July	29	27
film price cuts	Aug	12	21
Luxembourg N Ethyl plans polyolefin plastic films plant	July	8	32
at Manchester, Ia	Oct	28	13
film at Fuji plant	Aug	12	16 41
Mexican PV butyral plant will have Japa- nese participation N Olin's urethane chemicals expansion will make it a major producer of polyester	Dec	2	51
film	Oct	7	13
U.K	July	1	31 75
PP films prices N Water cooling of blow PP film can cut	Sept	2	75
12.5% off the cost of conventional casting	Sept	2	89
Epoxy plasticizers prices N FMC'S triisopropylphenyl phosphate, new entry in flame-retardant vinyl plasticizer	Sept	2	75
market N	Oct	28	28

Section Company of Addit Number Part Addition Company of		Dec Aug	9 26	41 27	Prices of standard-grade resins N Polychlorinated biphenyl – Monsanto will no longer market PCB as a plas-	Nov	4	24	ject N Water-degradable polymers: Organic acids that can be polymerized then slowly de-	Dec	9	49
All Submorns Service meanth upwell. All Submorns Services meanth upwe		Aug	20	21	ticizer or as a hydraulic fluid N Poly (dioxyethylene methacrylate) –	July	22	9	graded are basis for packages, controlled- release pesticides, drugs			
ABS. Moreone Exception agreement agreement agreement agreement agreement of the property of the control of the property of the pro	ABS: a clear grade of ABS from Borg-	Nov	Δ	63	Bausch & Lomb to seek approval to				wax polymer blends prices N	Nov	25	21
The property of the property	ABS: Monsanto European capacity upped;	1404	-	00	lens N Polyelectrolytes - Synthetic polyelec-	July	22	34	BASF process for laminating polyolefins			
Appendix Company Com	year plant in Antwerp R	July	29	19	trolytes, used at two municipal treat-					July	8	39
Age 1.2 2.3 2.3 2.4 2.4 2.5	R Oct 14-38 R	Dec	16	42	marks				Manchester, la N			
Authority & Sales Aug 5 - 62 Authority & Sales Aug 7 - 7 Authority & Sales Aug 7 - 7 Authority & Sales Aug 7 - 7 Aug Aug Aug 7 - 7 Aug	about	Aug	12	9		1404		5		зері	30	23
American Company Compa	tion from overseas (chart & tables)	Aug	5	63	Air safety bags: four man-made mater-				Australian PP fabrics plant R	Dec	2	22
Substantial Continuous Cont	debut	Oct	7	16	America's Cup: Pace-setter for boating	Sept	23	11	"Orbit"-process "66" bottles; Dart's			
Super-principle Stands Foul Stands Foul Stands Foundation of Principle Stands Foundation Stands Foundation Foundation Stands Foundation Foundation Stands Foundation Foundation Stands Foundation F		Nov	4	64	BASE process for laminating polyolefins	Sept	9	48	Rexene's new PP copolymer Continuous-filament PP unit at Terni	Dec	9	10
Contractions layed the planet of Fig. 1	Boats: plastic-hull target boats for U.S.			-	to glass-reinforced polyesters N	July	8	39	Italy	Nov	18	74
and critic glastic larts. (c. Odd) III 21 22 23 24 24 24 25 27 25 25 25 25 25 25	Camera. plastic 'give-away' camera made	Зерт	10	25	output, plan flake making	July	8	33	meeting	Sept	23	46
Southernest on the self for about 56 10 21 21 22 23 23 24 24 25 25 25 25 25 25	and acrylic plastic lens, to debut in				ester film venture in Japan N	July	29	27	patent in battle over polypropylene			
Construction. Big pilot for plates as with the plates of the plates and plates of the					will be expanded N	July	8	32	Esso Chemical Canada polypropylene	Aug	5	69
Fig. 19 19 19 19 19 19 19 19		Dec	9	9	Du Pont seeking injunction to stop East-				plant at Sarnia postponed N The gift package: glittering market for	Aug	26	28
Purpose of participated in the first of the participated in the	FRP, wood or aluminum for recreational				processing polyester fibers for carpet	Das	0	14	chemicals	Dec	16	27
Exercised Columents Colume	Flame-retardant plastics prices N					Dec	9	144	wide leveling in plastics demand			
Public Description Descr	Formica's Cincinnati, O., plastic laminates				burg, Ont., fiber plant N July 22-39 . N	Aug	26	28	Italian plant at Terni R			
Description Sept 2 2 2 2 2 2 2 2 2 2	plant to be phased out N Dec 9-7 R Furniture is now the fourth-largest user	Dec	16	18	ethylene oxide process				pleted R			
Process of Chemicals and plasted Cot 2 2 2 5 5 5 5 5 5 5	of plastic materials (table)	Sept	30	22	Furniture market (table)				Japanese plant at Kawasaki R Korean plant			38
Assemble	big piece				de Sinteticos' plant R	Nov	11	23	Prices N Sept 2-75 N Pro-fax PC-072 modified PP resin prices N		2	35 75
April 1996 Apr	Hoover Ball and Bearing blazes its trail					Sept	2	85	Water cooling of blow PP film can cut		-	
Common important important plants care from the many case of the plants in the	Hunting market: nylon gun; polyethylene				Japan's Teijin sells rights to polymer-	July		39	casting	Sept	2	89
Polymetric content in the content of particular increase in the property particular increase in the	ICI process injection-molds stiff plastic	Oct	28	38	Korean plant and polyester fiber unit					Oct	21	26
Approx A		Sept	23	53	Polyester-cotton blends and straight	July	23	20	Polystyrene			
Recreational selection funkted 1.0	Japan's exports of plastics increase in				ulation of heavy-duty detergents N					Dec	2	51
Engine of the content of the conte	first half '70	Nov	4	49	Recreational vehicles market		15 25		Camera made of injection-molded, high-			
No. Copy Internation with original particular contraction and pages 16 25	brightly colored signs and tinted	Sent	2	79	Teijin develops new approach to making	Nov	25	27	lens to debut in fall			
77 autor. Mast or mini — plastics win with way	N.Y. City litter to wind up in the (plastic)								Cosden Oil's Calumet City, Ill., plant now			
Non-degree place plant inter- liver's what happening Sept 9 15 Consent on increased No. Aug 5 2 2 2 2 2 2 2 2 2	'71 autos: Maxi or mini - plastics win				ABCD's unit onstream at Ragusa, Italy R	Nov	18	74	French production increased N		5	79
August Section Secti	Nondegradable plastic litter: Here's what's				normally used to supply roughage for	fester	20	22	Furniture market (table)	Sept		
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ente tell of new routes to PVC and poly- carbonate	Processes: U.S. engineers reveal new pro-				wide leveling in plastics demand				Polyvinyl Acetate - Seamless floors: Con-	July	2.0	12
Self-destruct_plants container and of fligh boom	ese tell of new routes to PVC and poly-	Aun	5	43	Hunting market: shot shells and wadding.	Oct			sagging market	Nov	18	96
Great Britain July 29 34 Sept 16-24, N Nov 4-24 N Nov 11 27 Sept 16-24, N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 4-24 N Nov 11 27 Sept 16-24 N Nov 12-24	Sales increases as a result of flag boom .				Nov 11-39 N	Dec	9	20	have Japanese participation N	Dec	2	51
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Worldwide growth slows Dec 9 39 Plastics sea also specific plastic Plating — Du Porton process for removing cyanide from zinc electropisting rinse water	USI: Closing in on the top 10				Power-Gas N					Sept	9	20
Worldwide growth slows	expansion plans (tables)	July			Sweden will boost output N				DSM will boost plant capacity R		22	38
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water Poland — Scientists develop economical heavy water process using a distiliation technique — Name of the processes using a distiliation technique — Name of Polystoper — Japan grains parmission for Goodyna's Pilipinit venture — Japan grains parmission for Coodyna's Pilipinit venture — Japan grains par	Plating - Du Pont process for removing				esters N	July	8	39	French production increased N	Aug	5	79
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Polimis Companies give help to employees making political donations (table) Oct 28 41 Du Port, Pierre IV Mr. du Port goes to Meshination The Polymer processes (Lise) and the polymerization The Polyme	emulsion called Tuklar to the Russians N	July	15	73	nated polyitaconic acid	Dec	2	35	wastes	July	1	39
Companies give help to employees making political donations (table) Oct 28 41 Du Port, Pierre IV. Mr. du Pont goes to Washington Nov 25 40 Election 79. voters in industrial states may impose new takes, tougher anti-process. In page 19 19 19 19 19 19 19 19 19 19 19 19 19					Polymeric Isocyanates — Mobay's urethane complex on site near Cedar Bayou, Tex.,				wide leveling in plastics demand			39 56
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Polywarbonates GE's Lexan project expansion at Mt. Vernon, Ind. N Nov 4 9 ces for Epsan, a rival for ABS, Japan- GE's Lexan will be used on Chaparral 2J racing car July 22 16 Sales increases as a result of flag boom July 29 36 Canadian shipments moving between Sas- Setf-destructing synthetic fibers? Scott of Setf-destructing synthetic fibers? Scott of		Oct	7	46	Polywater — fact or fiction? Here's the				refinery and adding aromatics units	Aug	12	16
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1816s	routes to PVC and polycarbonate	Aug	5	43	Self-destructing synthetic fibers? Scott of Univ. of Aston working on the pro-	-			katchewan and Vancouver get new rates	Nov Nov	18	99

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ultry Feed - Additives build better nimals for the dinner table	Dec	2	26		Nov	25	27	da's role as a supplier of power facilities	uly	1	40
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CW price index shows signs of rising prices	July	22	24	out the usual strong odors	Aug	26	31	Refractory products prices N	Dec Aug	23 19	33 85
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GE develops new techniques for process control	Oct	21	86	O				Cold water: pipeline lowered into ocean in an attempt to produce an artificial	Aug	19	108
rocess equipment control business report	Sept	23	19	· ·				upwelling of cold, deep ocean water Collembola and the soil mite thought to produce an enzyme that degrades	aug	13	.00
oduction				Quartz — Seamless floors: Contractors and suppliers seek to rebuild sagging				DDT to its derivative DDE Computer time-sharing system set up to	Sept	9	15
Administration appoints commission to promote productivity CPI going for bigger plants and better pro	July c-	22	15	market	Nov	18	96	search and match curves produced by infrared spectroscopy	Sept Oct	2 21	6
esses in attempt to offset labor costs that are outpacing per-man output	Dec	16	12					Converting coal into liquids N Co-spun polypropylene filter material –	Sept	23	4
(chart)	Dec	16	13	D				ACS meeting	Nov	25	21
problem	Oct	28	13	K				disciplinary science	July	29	41
Hill Economics Dept. report (table) Organic chemicals; some boomed in first	Nov	4	18	Radiation — International Nutronics' isotopic gamma radiation unit near Los Altos, Calif. is doing a bustling				of efficacy of older products is cutting down time that overburdened clinical researchers can spend on testing new			
quarter '70, but output of others was down	July		28	business	July	29	18	drugs	Dec	2	38
Russian production gains	V July	8	31	Railroads Chemical shippers may face freight				with special ink to prevent the repro- duction of newsletters and other docu-			
Explosion of liquid propane tank cars nearly wipe out Crescent City, III	July	, 1	18	strikes and rate hikes (chart) Companies are diverting shipments from	July	15	25	ments for limited distribution Food conference focus: new sources and	Nov	18	11
St. Louis city-owned vehicles may be	July		10	rails to barges and expanding their truck fleets	Oct	14	17	kinds of future foods	Aug	12	3
running soon on propane instead of gasoline	N Nov	18	38	Liquid propane tank cars explode in de- railment, nearly wipe out Crescent	001	114	.,	get additional funding next year Interior Dept, plans to phase out coal	Oct	28	2
gasoline			AE	City III.	July	. 1	18	research next year	July Sept	1 2	1 8
ropellants - Hydrocarbon aerosol pro-	N Dec	16	45	Railroads seek 15% hike in freight rates							
Propellants — Hydrocarbon aerosol pro- pellants prices	N Dec	16	45	City, III, Railroads seek 15% hike in freight rates, may lose customers Strikes	Sept	2	25	Japan's chemical industry to boost R&D N Lake Erie: "Project Hypo" study aimed at finding out why the lake's oxygen	Sept	2	
Propellants - Hydrocarbon aerosol pro-				Railroads seek 15% hike in freight rates, may lose customers Strikes Threats concern chemical companies . P Strike threatened if there are no con-		2 23	25 11	Japan's chemical industry to boost RALU N Lake Erie: "Project Hypo" study aimed at finding out why the lake's oxygen supply is being rapidly depleted N Liquid membrane technique for difficult		26	3

"Magnetic bottle", Tokamak, may be key to controlling fusion reaction	Dec	23	27
MIT's April and Hume work up a way to measure mercury in parts per billion . N	Dec	2	44
Michigan biochemists suggest new way to kill insects: Starve them of cholesterol N NAS report says the nation is in for a	Dec	16	60
health-care crisis by the turn of the century unless biomedical research is			
adequately funded N	Dec	9	50
NASA researchers devise a way to make water and oxygen from lunar soil N National Committee of Consultants on	Dec	2	43
Cancer set up to assess the nation's research effort and to speed it up	Aug	5	24
'Natural' pesticides: still far from the	Aug	19	98
Natural rubber growth stimulation: Ethrel ethephon can as much as double yields			
of trees already in the ground N Olin's researchers being tuned in to busi-	July	29	34
ness aspects with an aim to improving their productivity Penick's SBP-1382 bug killer will be tough	Oct	14	54
rival for pyrethrum	Sept	23	45
water process using a distillation tech- nique N	Aug	26	33
Polymer coating for pesticides will be tested	July	8	21
ACS meeting	Sept	23	46
Polywater – fact or fiction? Here's the inside story Prostaglandins: '70s panacea?	July	1	34
Red tide: An important clue to the forma-	Oct	28	45
tion of red tide turned up N Researchers cost more than ever: salaries and cost of support facilities going up	Dec	2	43
rapidly (chart)	July	22	30
lytic reactions convert isoprene to ter- pene chemicals	Nov	18	109
Rubber tree growth stimulant promises big boost in latex yield	Aug	5	73
Technicians: Will shortage slow research in '70s? (table) Trimsylate acid for chemical research . N	Sept	30	35
"Vitamin C and the Common Cold". Linus Pauling's book N Dec 9-49	Sept	23	49
Water-degradable polymers: Organic acids that can be polymerized then slowly de-	Dec	10	50
graded are basis for packages, controlled- release pesticides, drugs	Sept	2	65
Resins			
ABS see Plastics Acetal resin prices	Aug	12	21
tion from overseas (chart & tables)	Aug	5	63
processors disagree whether new plant should be built to meet terpene resin			
needs	Nov	18	103
Du Pont's Delrin acetal resin plant in Dordrecht, Holland N	Sept	23	39
Emulsion resin plant at Reichhold's Morris, III., will be completed in October R	Aug	5	27
Epoxy resins reinforced with glass fibers for plastic plane	Oct	7	16
Interplastic plans resin formultations expansion	Oct	7	19
elastomer resin	Sept	12	28 21
	Sept	2	75
prices N Polysulfone resin prices N Srafion NMRR resin used in ion-exchange	July	22	24
method of snaring precious metals from acid solutions undergoing feasibility	000	2	42
studies	Dec	2	43 64
Rhodesia - Chrome ore problem may be	July	1	10
eased	Dec	16	27
Roofs – Spray urethane foam will have big market in roofing	Nov	4	24
Rosin Gum rosin prices N	July	15	66
Gum rosin prices	Dec		32
Rubber			
ANIC's Ravenna synthetic foam rubber plant will use International Synthetic	-		0.5
Rubber's agglomeration process R Automobiles: needed – products for	Oct	14	38
under the hood	Aug	26	13
patent infringement on oil-extended	July	15	80
Combined Dunlop-Pirelli will become the	Dec	16	39
world's third-largest rubber company Cone curometer, one-of-a-kind testing	Dec	16	16
machine can evaluate all types of rubber and sponge N	Aug	5	70
Experts crystal-ball the tire designs of the future	Aug	12	11
Vredestein	July	8	17
Jacket that holds rubber for easy grinding	Sept	23	41
developed from starch xanthates and			

xanthides N	Nov	11	43
xanthides N Japanese affin rubber plant at Goi R Japanese Goon rubber capacities boost . R Natural rubber growth stimulation:	July	8 29	34 26
Ethrel ethephon can as much as double yields of trees already in the ground . N New way to hypo natural rubber	July	29	34
yield	Aug	5	73
Le Harvre, France, planned N Silicone rubber prices N	Oct Nov	28 25	14 21
URW reaches contract agreement with tire makers	July	1	16
U.S. makers can look forward to a record year in '71 Rubber Manufacturers Assn. — Ormsby pro-	Dec	2	21
jects tire shipments	Dec	2	21
Growth stimulant: new way to hypo natural rubber yield Ruckelshaus, William D. — EPA's new head. Golden opportunity for leader-	Aug	5	73
ship — Viewpoint	Nov Dec	18 16	5
trial polluters	Nov	18	46
HDPE plant using Mitsui technology to be built	July	8	34
U.S. investments sought, FMC-government joint venture is possible N Urea unit at Industrialimport's Tirgu	Oct	28	43
Mares complex will use Stamicarbon process	Nov	18	74
Russia Butadiene plant to be built by Mit-			
Subishi	Sept	30	28
Snia Viscosa	Aug	5	80
Chemical industry shares top priority in			
the '71 industrial investment budget . N Fertilizer output to double in the next	Dec	16	37
five years N Moscow's chemical show: Japanese, East and West Germans plan large exhibits, but U.S. participation will still be	July	29	27
light	Aug Sept	26 23	29 39
technology	Sept	30	39
Ruhrgas	July	15	26
ogy to be launched	Dec	16	15
- Can he prove it's water? Production gains for the Soviets N	July July	1 8	34 31
S			
Saccharin			
FDA says reports of saccharin ban "are inaccurate"	Oct	7	19
NAS-NRC study group gives qualified okay	July	29	12
Safety Auto air safety bags: four man-made		00	
materials under consideration N Auto bumpers' Federal code for stand-	Sept	23	11
ardization proposed Carpet makers 'burn' over U.S. rules Chevron Oil fined \$1 million for failing to equip its oil wells in the Gulf of	Dec Sept	23 16	18 23
Mexico with storm chokes or similar	Sept	2	17
safety shutoff devices N Consumer-product safety bill hearings . N Drugs see Drugs Food additives see Food Additives	Aug	26	20
Government and industry to clear up new questions about safety of certain			
chemicals in two well-established con- sumer products Household chemicals are among 16 cate- gories of commonly used products	Oct	14	20
termed "unreasonable health hazards" Job-safety legislation see Law	July	1	17
Lead paint poisoning prompts a look into three bills to regulate the labeling and sale of such paints and help communities	5		
remove lead paint from old buildings Liquid propane tank cars explode, nearly	Sept	2	24
wipe out Crescent City, III Mrak, E. avers there is no evidence that minute pesticide traces in food cause	July	1	18
harm to the human organism N Natural gas pipelines safety regulations		7	13
Safety bill draws barrage of union	Aug	26	18
Nerve gas disposal bugs Army	Oct Aug	7 19	17 23
Nixon may ask for more controls over manufacture, storage, shipping of hazardous chemicals and spill-reporting			
network Nuclear safety see Atomic Power OPS trying to come up with a model law	Sept	23	42
that would cover pipeline damage caused by so-called third parties "Peril on the Job" new book, charges	Sept	16	23

"excess" management concern with money, production and technology is responsible for many accidents in chem-	D	0	
ical companies . N Pipeline safety see Piping Pollution control see Air Pollution, En- vironment, Water Pollution	Dec	2	13
UC takes steps to prevent another ole- fin complex fire	Sept Sept	23	18
Salt	ССР	-	,,,
AKZO plant at Delfzijl, Holland R July 8-33 N Argentina: Tata plans Solvay-process	Oct	21	73
sodium carbonate plant N Australian salt for the chemicals of lanan	Nov	18	73
French vacuum salt plant planned R Hooker will build pipeline to move brine from Wyoming County, N.Y., to its	Oct July	14 22	22 38
caustic-chlorine plant at Niagara Falls N Utah's rights to Great Salt Lake mineral	July	8	20
bonanza get new support	Oct	21	24
top	Oct	14	60
pigments plant near Glasgow	July	22 16	38
Selling			
Camp Chemical boosts sales 70% with accent on marketing	Dec	9	29
Celanese teaches distributor salesmen how to sell solvents	Aug	19	86
sliding sales and profits (charts) Citibank Chemical Exchange chemical mar-	Oct	28	31
keting and purchasing men turn thumbs down N Dow Badische's "instant carpet sample"	July	8	28
kit for booming contract business Fertilizers — Year-end report: volume up,	Nov	11	35
but profits remain slim (table)	Aug	12	24
GAF agreement makes its film the "official film" for Disney market	Sept	23	17
15 years — CW survey (charts)	Dec.	9	35 9
Selling see also Marketing ; see also specific chemical, commodity etc.	July	,	9
Separation Centrifuges - report, Kenneth Brooks	Sept	16	33
IIT separates organics from water and gets a water stream containing only one or two parts/million N	Dec	16	59
one or two parts/million N Liquid membrane technique for difficult mixture separations — ACS meeting	Sept	23	46
Sewage Treatment Camp Chemical boosts sales 70% with			
accent on marketing Hercules contracts to design "the nation's most advanced" solid-waste reclamation	Dec	9	29
plant for New Castle County, Del. N Houston Ship Channel industrial and municipal waste-treatment plant may be sponsored by five process industries	Sept	9	9
companies	July	8	19
or two parts/million N Racine, Wis., and Rex Chainbelt project to reduce the level of pollution in the	Dec	16	59
Root River, five plants will treat the combined sewer discharge N Rollins-Purle plants to treat industrial	July	15	20
wastes in Baton Rouge and Houston . N Sewing — Ultrasonic "sewing" machine	Dec	2	44
demonstrated N	Oct	7	48
Shale Oil Delphic study predictions N Interior Dept. proposal would grant so- dium-mining leases in oil-shale areas	Nov	25	21
dium-mining leases in oil-shale areas to private companies	Dec	2	20
He found law easier than child's play	Sept	9	64
Shipping Alaskan oil. ways to ship North Slope oil studied Barge mixing rule legislation would enable	Sept	2	23
operators to mix regulated and unregu- lated cargo N July 8-28 N Blimps could make a comeback to trans-	Dec	23	10
port natural gas and oil	Sept	16	23
rails to barges and expanding their	Oct	14	17
Cruck fleets Crotainerization of small-lot orders cuts cost, speeds delivery Gordon Terminal Service storage and	Dec	23	43
docking facilities at Bayonne, N.J. for PPG	Aug	26	18
exports and imports	July	22	10
ports	July Aug	29 5	27 18
chemical shippers	Oct	21	24
chemical shippers Nerve gas disposal bugs Army Nixon may ask for more controls over manufacture, storage, shipping of haz- ardous chemicals and spill-reporting	Aug	19	23
network ,,	Sept	23	42

Plant sites report, J.M. Winton, Trans-			
portation patterns for chemicals and allied products (table)	Aug	19	64
Tanker shortage deflates value of oil im-			64
port quota tickets TTT's roll-on trailership launched Ultramar Chemical's superbarge debuts: Oceangoing "Hawaii" can carry 16,000	Aug Nov	5	25 23
Shipping see also Barges, Railroads, Ships,	July	29	15
Ships - Litton wins Navy contract to build			
30 destroyers over the next eight years N Shoes — Corfam second generation: Du	July	1	19
Sicily see Italy	Nov	11	34
Silicates – Porous silicates offered by	Sept	2	85
Corning Glass	Oct	14	42
Norwegian silicon metal plant expan- sion	July	8	33
Silicon Nitride - Norton Co, licenses high-	July	1	27
density SN from J. Lucas, Ltd N	Dec	23	23
Silicones Dimethyl silicone compounds prices . N	Oct	7	37
Dimethyl silicone fluids and emulsions prices	Oct	14	28
Silver			
Disposal program problems: bidders de- fault; new policy requires deposit and	7.6-	1	20
notice of default N World silver supply up	July Aug	26	28 17
up	Aug	26	17
bility study; ethylene plant sought N	Sept	23	39
Soap & Detergent Assn.			
Household laundry and dishwasher deter- gents will soon carry labels showing their phosphate content	Nov	18	46
Study of enzyme detergents' effects on	Oct	21	24
Soaps	oct	21	24
Detergent makers OK government-industry	Oct	21	24
enzyme study	July	1	27
sumers back to soap powder Society of Chemical Engineers, Japan –	Aug	12	31
Chemical Plant Engineering Exhibition (fifth annual): Chemshow Japanese			
style	Sept	30	28
Society of the Plastics Industry Meeting on plastic furniture (table) ,	Sept	30	22
Plastic litter: to determine and demon- strate "the effects of refuse plastics when burned in a municipal inciner-	G. In		
ator"	Sept	9	15
Soda Ash Elcor studies feasibility of making soda			
ash at Rock House N Olin's Saltville shutdown: pollution con-	Nov	4	63
trol costs kill a plant	Aug	19 16	91 45
rising costs	Dec	9	32
Trend is up for chemical prices Sodium – Interior Dept. proposal would grant sodium-mining leases in oil-shale	July	15	32
*areas to private companies	Dec Dec	2 16	20 45
Sodium Carbonate — Argentine plant planned by Tata N Sodium Chlorate — Prices N	Nov	18	73
	Sept	23	22
Sodium Chloride Great Salt Lake production pace quick-			
Italian plant near Ciro Marina R	Dec Sept	9	45 85
Sodium Cyanide — Product prices N Sodium Fluoride — Prices N Sodium Hypophosphite — Prices N Nov 25-21	Sept Dec	9 16	41 45
	Dec	2	35
Sodium Hypophosphite Monohydrate – Prices	Nov	25	21
Gibbstown, N.J	Oct	7	19
Sodium Silicate — Ecolo-G controversy	Sept	30 25	14
tion pace quickens	Dec	9	45
Sodium Sulfite — Prices N Sodium Sulfur — Chemicals prices N Sodium Thiosulfate — Prices N Sodium Tripolyphosphate — Prices N	Dec Sept	16 23	45 22
Sodium Tripolyphosphate – Prices N	Dec Sept	16 23	45 22
Solvents			
Celanese teaching distributors how to sell solvents	Aug	19	86
Solvay plans chlorinated solvents plant at Jemeppe complex R Standard Gravure to build solvent recovery	July	22	38
plant at Louisville, Ky	Oct	21	26
1,1,1-trichloroethane N Sorbitol — Silvichem process updates old	Nov	4	64
idea, could turn wood waste into a major raw material for sorbitol and other			
chemicals South Africa — "Unique process" for en-	July	29	30
riched uranium	July	29	33
sodium silicate is an effective fire-			

resistant insulator N Soybeans — Output and prices N	Dec Aug	19	44 85
Space Technology			
NASA researchers devise a way to make water and oxygen from lunar soil N	Dec	2	43
Thiokol wins Minuteman contract	July	15	26
Spain			
Acrylic fiber capacity increase at Cyanenka plant in Barcelona R	July	8	33
Acrylonitrile joint venture plant at	Dec	2	52
Aliphtaic amines plant in Barcelona R Alkylbenzene and normal paraffins plant	Oct	14	38
onstream	Dec	16	42
Basque separatists	Dec	9	20
Bilbao area faces labor unrest as workers protest the trial of 16 Basque separa-			
tists	Dec	23	31
production and marketing of Bolivian	Sept	16	18
CONOCO partner in Spain's first petro-			
Cros agrees to buy Hooker's 50% interest	Dec	16	42
in Oxicros from Occidental Petroleum . Esso Chemical acquires full ownership of	Nov	11	38
Fibras Esso and Amoniaco Espanol . N Ethylene capacity will be expanded to	Dec	23	31
meet nation's rising demand	Aug	5 18	84 73
Foreign investment in Spain rose 12% in		5	79
Fosforico Espanol phosphoric acid and	Aug	5	19
ammonium phosphate capacity to be upped	Aug	26	28
Natural gas regasification plant in Barce-	July	1	31
Spectroscopy — Computer time-sharing	oury		51
system set up to search and match curves produced by infra-red spec-			
troscopy	Sept	2	65
process	Sept	2	90
 Sprayed asbestos for fireproofing faces restrictive legislation 	Sept	16	62
Stabilizers — Tect Inc.'s new, safer way to stabilize 1,1,1-trichloroethane developed N	Nov	4	64
Standardization	1404	4	04
AIChE's 63rd annual meeting: Pollution			
ideas draw blast	Dec	9	12
ization proposed Auto exhaust: government wants tighter	Dec	23	18
Auto exhaust: government wants tighter controls for '72	July Sept	22 16	23
Flammability standards for children's			
sleepwear proposed	Nov	25	16
of processed foods and federal standards for such products; hearings N	Sept	2	32
Metric system see Metric System Pollution standards see Air Pollution:			
Environment; Water Pollution			
Stanford Research Institute Chemical Industry Economics group: a			
new forecasting tool helps companies			45
Computer data services help companies	Nov	4	15
find markets, customers	Dec	16	49
Starch Corn starch prices N	Aug	26	27
Corn starch prices	-3		
xanthides	Nov	11	43
	Uct	28	27
Statistical Aids Commerce Dept.'s input-output analysis			
seminars	Sept	9	10
Data Bank	Sept	23	43
panies utilize capital	Nov	4	15
chemical and plastics' production			
and sales statistics may be cut off . N Prospects improving for continued	Sept	16	58
publication N Steam – Union Oil contracts for the con-	Oct	14	28
version of the geysers area of northern Calif, into world's largest source of			
electrical energy generated by geo-	hatea	20	16
thermal steam	July	29	16
Auto makers plan to trim steel orders			
for new-model startup	Aug	5	27
shapes up	Nov	4	15
CIL's new stainless steel cooler for	0		
sulfuric acid plants N Can-maker talks could affect labor pic-	Oct	14	41
ture for nonferrous metals	Nov	25	14
chemicals for years to come (charts) Enka Glanzstoff will build steel tire-cord	Sept	2	21
plant in Limerick, Ireland R A good year coming, say industry	Aug	5	27
experts	Oct	28	18
United Steelworkers 15th constitutional	July	29	19
convention: contract demands may cause massive steel strike next year . N	Oct	7	13

Stockpiles			
Disposal bills. Nixon signs bills for disposal of 17 stockpiled materials . N	July	22	23
Senate has rejected competive bidding for stockpile sales	July	8	21
default; new policy requires deposit and notice of default N Storage — Natural gas underground storage	July	1	28
reservoir project in Louisa County, Iowa	July	8	20
chemicals	Aug	12	12
Styrene Japanese monomer plant in Yokkaichi , R Japanese producers plan to double	July	8	34
capacity by '74	Oct Dec	21 16	73 39
Kanegafuchi plans styrene terpolymer resin plant in Geel, Belgium N	July	29	28
Styrene Butadiene Dow of Sweden plans latex plant at			
Norrkoeping N Sept 2-81 N	Dec Dec	9	20 38
Succinic Anhydride - Uniroyal will pro- duce succinic anhydride at Geismar.	Dec	23	18
La. R Sueyoshi, Toshio — Mitsui Toatsu's new president: keeps his cool when going is rough	Dec	16	68
Sugar	Dec	10	00
Food conference focus: new sources and	Aug	12	32
Owens-filinois trying to sell BAIL's sugar	Nov	18	37
Silvichem process updates old idea, could turn wood waste into a major raw ma- terial for sorbitol and other chemicals ,	July	29	30
Sulfite – Canadian International Paper's alkaline sulfite pulping process will yield	July	29	30
pulp at least as strong as sulfate pulp, without the usual strong odors Sulfonates – Conoco Chemical Europe	Aug	26	31
will build oil-soluble sulfonates plant at Zeebrugge, Belgium R Sulfopolycarboxylic Acids — New contender	Aug	12	13
for detergent markets emerging in Europe	Nov	25	27
polyitaconic acidN	Dec	2	35
Sulfur An evaluation of a process to produce			
ashless low-sulfur fuel available from GPO	July	1	19
prices hiked N July 29-24 N Chemical extraction process for getting copper from sulfide ores research pro-	Aug	5	60
gram	July Aug	15 12	79 5
Elcor's Rock House sulfur-from-gypsum plant progress N	Nov	4	63
Plant to close; company asks ASE to suspend trading in Elcor Elcor considering three options in	Nov	18	42
effort to alleviate financial plight caused by its problem-plagued sulfur venture N	Dec	9	41
European sulfuric acid makers gearing up to handle more solid sulfur N	Oct	7	37
Freeport Sulphur pressing forward with	Oct	28	21
Heavy-fuel desulfurization plant will be built at South Portland. Me.	July	29	11
Illinois Power's Wood River station unit will install Monsanto's Cat-Ox system for recovery of sulfuric acid from stack			
gas N Imports: Sen. Long introduces a bill to	July	22	34
Imports may be curbed by new bill	July	29	23
(chart)	Aug	26	15
shipment	Sept	2	28
trol	Oct	14	28 27
Pittsburgh pilot plant will test new way to pet sulfur out of coal			79
Prices N Shell Oil will build the "largest sulfur recovery plant in the U.S." near Jackson, Miss. N	Oct	7	37
Sichly's remaining surfur mines will close		14	14
U.S. production of Frasch sulfur through	Nov	18	100
April '70 N West Germany capacity slated for ex-	July	1	27
pansion N	July	22	24
Sulfur Dioxide Consolidation Coal's formate process			
for removing sulfur dioxide from stack gases will get pilot testing N SO ₂ emissions: NAPCA offers to help	Nov	18	113
support development of processes for sulfuric plants, sees treatment of tail	Core	0	E4
gas as best solution	Sept	9	51
Bunker Hill's plant at Kelloog Ida, is	Oct	28	21
completed. R Chemico's system will help utility meet stack emission regulations without using low-sulfur fuel, also yield sul-	oct	20	21
furic acid	July	15	69

Coastal Chemical's plant and a triple superphosphate unit at Pascagoula,		20	••
European makers gearing up to handle	July	29	19
Greek plant	Oct Oct	7	37 4 3
Inco plant at Copper Cliffs, Ont N	July July	22 8	34 27
Pollution curbs result in shortages, higher prices in Japan	July Dec	29 16	26 45
Stainless steel cooler for sulfuric acid plants developed by CIL	Oct	14	41
sulfuric plants, sees treatment of tail gas as best solution	Sept Aug	9	51 79
Sunflower Seeds — Food conference focus: new sources and kinds of future foods	Aug	12	32
Surfactants Armour's Armeen L-9 (2-amino nonane) plays a key role in a new lithium flo-			
tation process	Sept	2	90
are booming	Aug Nov	12 25	21 21
Sweden Alkaline chloride capacity expansion at Fosfatbolaget's plant in Stenengsund . R Chemical industry will boost output about 7%/year during the next 30	Aug	12	16
years N Dow plans styrene butadiene latex plant	Aug	5	79
at Norrkoeping N Sept 2-81 N Exports drag Nonwoven textile plant	Dec	9	20 16
Nuclear generator may be converted to	July	8	33
burn oil Optical brighteners used in detergents found in fat of fish taken from dis-	Sept	2	89
charge areas of two cities N Pipeline for carrying oil and petroleum products from Gothenburg to central	Aug	5	69
industrial area – report due N Sweeteners	Nov	18	113
Canada bans all food containing cycla- mates	Sept	2	17
Saccharin ban reports "are inaccurate" says FDA Saccharin get a qualified okay from NAS-	Oct	7	19
NRC study group	July	29	12
ical boosts sales 70% with accent on marketing Switzerland — Lonza's niacin huge new	Dec	9	29
plant threatens makers with overcapa- city	Nov	25	25
Synthetic Organic Chemical Manufacturers' Assn.			
Allied's F. Bissinger new president; other officers elected	Dec	9	13
ASP repeal races adjournment clock	Dec Sept	9 16	54 24
Seminar on the complex custom laws and practices to be held	Nov	4	18
Seminar on tariffs and customs limns ASP need	Nov	18	44
2,4,5-T — Pesticides report by the U.S.			
Tarfff Comm. underscores the obvious: some of the oldtime bug-killers have		10	9
just about had it Producers told to clean up processing N — letter	Oct Oct	12 7 28	14
Taiwan see China, Nationalist			
Tankers Alaskan oil: ways to ship North Slope oil studied Algerian imports: El Paso and Columbia Gas file applications to import LNG	Sept	2	23
in special cryogenic tankers; prospects of recovering olefinic feedstock	Sept	30	21
Capacity of tanker ships registered in	Nov	11	
Shortage deflates value of oil import quota tickets	Aug	5	25
Tanks Boron-based product kills bacteria in fuel oil tanks Glass-fiber-reinforced giant 20x32-ft,	Aug	5	53
Glass-fiber-reinforced giant 20x32-ft, tank made in one piece - letter	Aug Sept	5	25 14
Tariffs ASP: U.S. better off without ASP?	Dec		15
ASP see also Trade Bill Argentina's slash in import duties worries			
chemical makers. Heptanoic acid tariff may be imposed. N Japan to cut tariffs on about 13 chemi-		22 15	16 65
cals	Dec	23	18

Japanese textiles see Imports — Japanese			
textiles Oil: President Nixon barred from sub- stituting tariff on oil for present system	July	22	23
ariff Commission set to probe U.S		7	
Trade bill	Oct		16
Pairing import relief, ASP repeal Textile quota bill puzzles chemical com-	July	8	18
pany representatives N House Ways & Means Committee's ver- sion will include new import quotas and perhaps some authority for the	July	8	21
President to impose other quotas . N	July	15	20
ASP may survive, quota action coming	July	22 29	17 18
Trade bill faces veto Trade quotas only spell trouble — View point House Ways & Means Committee de-	July	5	5
cides to report out massive trade	Aug	19	17
bill for floor action N flow the trade bill took shape	Aug	26	17
Industry faces loss of ASP (charts)	Sept Sept	9	26 13
ASP repeal races adjournment clock	Sept	16 14	24 19
Trade bill in '70? Senate pulls ASP ploy	Oct	21	26
Japanese decision to reopen negotia- tions on voluntary restriction of tex-			
tions on voluntary restriction of tex- tile exports chops trade bill chances .	Nov	4	14
SOCMA seminar limns ASP need Trade bill finally passes the House Sen. Miller to MCA; There's doubt the	Nov	25	13
the trade bill will get Senate okay this year	Nov	25	13
Senate, led by Javits N Textile talks could temper trade	Dec	2	13
measure	Dec	2	22 12
U.S. could break out in quotas ASP: U.S. better off without ASP?	Dec Dec	23	15
U.S, liberal trade policies' reversal worry Japan and Europe N	July	8	31
Taxation Australia: companies to pay ore royal-			
ties	Nov	25	16
for water pollution control units at Lackawanna plant	Dec	23	18
Canada: Economic slump stunts chemical growth (tables)	Nov	25	33
taxes later (table)	Aug	5	35
Election '70: as the vote goes, so go new	Oct	28	17
state taxes, controls Elections no landslide for CPI Lead additives in gasoline tax rejected . Louisiana's McKeithen: Gas producers face severance tax hike unless they up	Nov Dec	18	45 19
output	July	8	15
Nixon's lead tax bill: time is running out	Sept	23	18
Nixon's package of proposed tax increase hearings N Plant sites report, J.M. Winton Latest	Sept	16	17
on state franchise, corporate income, sales, vehicle fuel and severance taxes (table)	Aug	19	62
Tax force would ease capital spending	Aug		
Union Carbide: Anmoore, W. Va. re- moves ceiling on the company's tax	Dec	16	16
payments U.K. tax scheme turns industry off West Germany's new deflationary tax	Dec Nov	16 18	17 74
measures could mean tighter profit squeeze for chemical companies N Television – FTC's new policy regarding	July	15	73
TV advertising	Nov	4	10
By-product ammonium sulfate use	_		
proposed N Nuclear power plants ordered N	Oct Sept	14	10
Terephthalic Acid ICI will build plant at Wilton, Teesside R Mitsui plant at Iwakuni-Ohtake complex R Polyester switch: esterification of TPA	Sept Oct	2 7	85 43
with ethylene oxide process	Nov	11	41
Teijin develops new approach to making polyester for fibers N	Nov	25	27
Terpene Arizona Chemical and other turpentine			
processors disagree whether new plant should be built to meet terpene resin			
needs	Nov	18	103
lytic reactions convert isoprene to terpene chemicals	Nov	18	109
of rubber and sponge	Aug	5	70
Tetrahydrofuran — Japanese plant under	July	22	15
Construction	July	16 22	39 15
Textiles 'Brown lung' — Textile industry scored			
on "do-nothing" attitude on byssinosis. Burlington Industries will raise the pay of	. Dec	16	18
75,000 workers	i Sept	9	9

toward and a second and second			
	Nov	11	43
	Nov	11	23
Fiber makers lay off thousands as their market weakens	Oct	21	22
Flammability standard for children's sleepwear proposed	Nov	25	16
Home-sewing market gets push from fiber makers	Sept	2	24
Imports - Trade bill see Tariffs - Trade bill	Dec	16	14
Japanese imports Quotas to get U.S. nod?	July	1	16
Japan eases textile stand, changing out- look of U.S. trade bill	Nov	4	14
Japan has second thoughts on curbing textile exports to U.S	Dec	2	22
PPG introduces Triana, a family of glass- fiber yarns	Aug	5	27
Self-destructing synthetic fibers? Scott of Univ. of Aston working on the project N	Dec	9	49
Stevens bucks wage trend Swedish plant to make new type of non-	Sept	16	24
woven textile	July	8	33
imports	Sept	9	18
strated	Oct	7	48
imports of rayon staple fiber, says the AFL-CIO TWUA	Nov	18	37
Thailand - Jananese netrochemical invest-	July	8	31
ments may be jeopardized N Complex is a step closer to approval . N Third International Congress of Food Science and Technology — Food confer-	Nov	11	39
ence focus: new sources and kinds of	Διια	12	32
future foods	Aug	12	32
board: Physicist, pilot zooms company to new heights	Aug	5	90
Tires All-terrain vehicles, industrial equipment			
ride on special tires	July	8	36
carbon black N	Sept	30	31
Computerized tire recall service will be offered to industry	Aug	19	25
FTC will issue complaint against Big Five, requiring an end to leasing arrangements	Sept	2	87
with bus companies	Nov	11	14
ads	Oct	28	19 19
Firestone's annual year-end forecast . N \$5,25 billion will be spent for tires this	Dec	23	10
year N Goodyear develops passenger car tire	Sept	9	10
with all-steel-wire cord	Oct Sept	14	20 87
Ormsby, R. of RMA projects tire ship-	Dec	2	21
PPG says "second-generation" glass-fiber tire cord will open new markets N	Aug	26	27
Rubber companies give injection-molded	Nov	11	20
tires a hard look Rubber experts crystal-ball the tire designs of the future	Aug	12	11
Steel tire-cord plant in Limerick, Ireland R Ultrathin metal filament continuous spin- ning process developed by Monsanto to	Aug	5	27
URW reaches contract agreement with	Oct	14	41
tire makers	July	1	16
America's Cup. Pace-setter for boating	Sept	9	48
Chemicals			
plant	Sept Sept	16	25 85
Titanium Dioxide			
Cyanamid will shut down Piney River, Va., sulfate process dioxide plant N	Dec	16	45
Korean plant in Inchon	July	29	26
planned N Pigment prices N Prices N	July Dec	9	31 41
Prices N	Sept	30	21
Titanium Oxide Japan's Fair Trade Comm. raids 30 offices of eight major manufacturers			
for evidence of price-fixing N Japanese plant in Yokkaichi R	Aug	19	85 34
Pollution curbs result in shortages, higher	July	29	26
prices in Japan Tobacco — Nader, R. says toxic inorganic additives being used to make popular priced cigars, cigarillos and maybe cig-			
arettes	Oct	7	14
billion market in cosmetics, toiletries - report, Patricia L. Layman (tables)	Oct	21	54
Toluene			
Aromatics: output up, profits down, de-	Aug	12	7
Japanese sale to Standard Oil of Calif . N Prices	Sept	16 28	58 28
Toluene Diisocyanate			
Du Pont will double its capacity R	Aug	5	27

								Utah			
Foam auto seats: new business for TDI makers	Oct	14	33	U.S. Dept. of Agriculture Broadening its review of pesticide applica-				Great Salt Lake: Utah's rights on mineral			
Mobay's urethane complex on site near				tions	Sept	9	18	bonanza get new support	Oct	21	24
Cedar Bayou, Tex., planned Olin project probably will be on Gulf	July	15	27	Gypsy moths: auxiliary treatments suggest- ed to replace DDT in battle against				Great Salt Lake brine tap begins with potassium sulfate shipment	Dec	9	45
CoastN	Oct	7	13	gypsy moths	July	22	29		500	9	45
Prices	Nov	11	27	Jacket that holds rubber for easy grinding developed from starch xanthates and							
France, expansion	July	8	33		Nov	11	43				
Supplies remain tight; exports soar;				Mercury seed treatment row: Nor-Am wins				V			
capacity; prices N Toothbrush – FTC complaint charges that	July	22	24	injunction against suspension of Panogen July 22-27	July	29	16	V			
Chemway misrepresented the antibacterial				Pesticides regulations will be one of the	July	23	10				
property of Dr. West's "Germ fighter" toothbrush N	Dec	16	24	areas taken over by the new EPA N Polymer coating for pesticides will be	Nov	18	49	Vaccines see Drugs Valves — Tight shutoff of tough gas			
Toxaphene — Hercules protests toxaphene's	Doc	10	24	testedN	July	8	21	stream provided by new valves	Oct	7	52
inclusion in a government list of "problem"	Mou	18	114	2,4,5-T producers told to clean up	0	-		Venezueta			
chemicals	1404	10	114	processing N	Oct	7	14	Creole Petroleum plans LNG plant N	Sept	2	81
suit against professional photographers				U.S. Dept. of Commerce	_			IVP to seek credits for con-			
Rolfe and Gary Christopher for spying: court rules for Du Pont N	July	29	12		Oct	7	17 10	struction	Aug	26	28
				Mid-year study: Mid-year optimism	Aug	26	18	Video Tapes — Thermal system for duplicating video tape developed by			
Training Celanese teaching distributors how to				U.S. Dept. of Health, Education and Welfare — U.S. drinking water supply is				Du Pont N	July	8	40
sell solvents	Aug	19	86	essentially safe, but "there is still cause				Viewpoint - July 1-5 (letter July 22-5), Aug 5-5, Aug 19-5, Sept 2-5, Oct 7-5,			
JOBS program to make it easier for smaller companies to participate	Sept	9	17	for serious concern" N	Aug	26	20	Nov 4-5, Nov 18-5, (letter Dec 9-5,			
Olin's researchers being tuned in to busi-	oop.			U.S. Dept. of the Interior				Dec 16-5)	Dec	23	5
ness aspects with an aim to improving their productivity	Oct	14	54	Federal rulings on mercury pollution becloud state actions	Sept	9	20	Vinyl			
Thiokol's program for teaching and train-	Oct		-	Klein quits in policy row over water		9	20	FMC's triisopropylphenyl phosate, new			
ing the disadvantaged turns into new business	July	22	41	quality	Sept	30	15	entry in flame-retardant vinyl plasticizer market N	Oct	28	28
Wilmington, Del., ghetto tells chemical	July			Listing of sperm whales as an 'endangered				Occidental purchases Grace's Latin			
firms: "It's up to you". Meyer Lurie	Sept	2	37	species' may cut off supplies of sperm oil for use as a lubricant	July	29	25	American vinyl holdings N Upholstery products prices N	July	29 29	11
Transportation				Plans to phase out coal research next					5014	20	
All-terrain vehicles, industrial equipment				year N Proposal would grant sodium-mining	July	1	19	Vinyl Acetate National Distillers antitrust suit against			
ride on special tires	July	8	36	leases in oil-shale areas to private	_			Bayer, Hoechst and Celanese relating			
port natural gas and oil	Sept	16	23	Secretary-elect Morton: A switch in pol-	Dec	2	20	to VA and acetaldehyde	Aug	12	13
Chemical companies are diverting ship- ments from rails to barges and				lution sentiments may be in order	Dec	9	14		July	15	27
expanding their truck fleets	Oct	14	17	U.S. Navy — Litton wins contract to build 30 destroyers over the next eight years N	linke	1	19				
Plant sites report, J.M. Winton, Transpor-				U.S. Tariff Commission - Funds for pub-	July	•	15	Vinyl Chloride BP's plant based entirely on ethylene due			
tation patterns for chemicals and allied products (table)	Aug	19	64	lishing chemical and plastics' production and sales statistics may be cut off N	Cont	16	58	to start up in Baglan Bay, Wales N	Dec	9	49
REA Express in financial troubles N	July	1	19	Prospects improving for continued	Sept	10	30	Hoechst's Gendorf VC plant will switch to oxychlorination process employing			
Transportation see also Aeronautics, Barges, Railroads, Shipping, Trucks				publication N	Oct	14	28	only ethylene N	Oct	7	48
Trichtorocarbanitide - Japanese plant at	-							Peroxy initiators reduce cycle times Vinyl Chloride see also Polyvinyl Chloride	Aug	5	53
Nagoya	Dec	16	40	University of Aston				Vinyl Chloride Monomers see Monomers			
safer way to stabilize 1,1,1-trichloro-				Scott, G., working on self-destructing				Virus - Warf Institute will carry out study of effectiveness of detergent and disin-			
ethane	Nov	4	64	synthetic fibers	Dec	9	49		July	1	19
in flame-retardant vinyl plasticizer				"Self-destruct" plastic container process developed N	July	29	34	Vitamins			
market N	Oct	28	28	University of California — Bromley has				B vitamins' shortage is now worldwide;			
Trinidad - Occidental Petroleum awarded with oil exploration and production				come up with an "economical and tech- nologically feasible" process that uses				niacin and niacinamide critically tight N	Oct	28	28
licenses		29	11	sea water to scrub sulfur oxides from				Vitamin C: Linus Pauling calls for large- scale testing to prove claims, now-			
Trona — Soda ash producers switch to trona to counter rising costs	Dec	9	32	power plant smokestack gases	Sept	2	25	questioned, that vitamin C can pre-			
		9	JE	tide: An important clue to the forma-				vent, cure colds Vitamin C: Linus Pauling's new book	Dec	16	56
Chamical chippers may fore freight				tion of red tide turned up N	Dec	2	43	claims that large daily doses of vitamin			
Chemical shippers may face freight strikes and rate hikes (chart)	July	15	25	Uranium				(1-2 gram/day) can prevent the com- mon colds, double doses (2-4 grams/			
Companies are diverting shipments from				Canada: uranium mining complex will	Aug	26	11	day) can alleviate symptoms N	Dec	9	49
rails to barges and expanding their truck fleets	Oct	14	17	be built in northern Saskatchewan , N Enrichment plants using gas centri-	Aug	20	1.1				
Philadelphia: Eastern Labor Advisory				fuges - Centrifuges - report.	Cont	16	20				
Assn. and 11 local unions of the TU re- sume negotiations N	Nov	25	9	Kenneth Brooks	Sept	16	38	***			
				nuclear power growth	Sept	16	21	W			
Turkey Petrochemical complex in Izmir planned				Gulf Mineral Resources' processing instal- lation at Lake Wollaston, Sask., okayed	Sept	9	16	**			
N Aug 5-79, Aug 12-16 N	Oct	14	35	Russians offering to enrich uranium for	oop.			Walker, Eric - Alcoa's vice-president:			
Teijin plans joint-venture dimethyl tere- phthalate and polyester fiber plant . R	Oct	7	43	West German and Swedish nuclear com-	Nov	11	43	He was graduated from the halls of			
	OCT	,	45	panies	1404			ivy to big business Warehousing — Materials handling — report	Oct	21	104
Turpentine Arizona Chemical and other turpentine				enriched uranium N	July	29	33	G.V. Schultz	Nov	18	77
processors disagree whether new plant				Ures							
should be built to meet terpene resin	Nov	18	103	Hawkeye Chemical upping capacity at		30	11	Waste Disposal			
needs	1404	10	103	its Clinton, Ia., plant N Vulcan-CPI-Allied technology will be	Sept	30	11	Armco Steel's dumping of cyanide,			
through '75 (table)	Dec	2	32	used N	Nov	18	114	phenols and other chemicals into Houston Ship Channel is creating a			
				Israeli plant at Haifa	Nov	18	74	"health hazard" - Justice suit filed . N	Dec	16	9
				manufacturing costs (chart)	Oct	21	32	British waste hassle	Nov	25	31
				Urethane				authority to save San Francisco Bay from			
U				Flame-retardant urethane insulation				sewage and other waste	Sept	2	28
I Name and the state of the sta				systems' competition N Foam insulation for recreational vehicles	Oct	28	27	Carborundum's solid-waste disposal demonstration plant at Orchard Park,			
Ultrasonic "sewing" machine demon- strated	Oct	7	48	market	July	15	56	NY, will daily "produce" a clean aggre-			
			-	Foamed-in-place rigid urethane wins okay				gate-type residue called "urban ore" from about 75 tons of refuse N	hily	15	20
Underwater Mining Delphic study predictions N	Dec	25	21	for structural and insulation use in houses	Dec	2	20	CPI may be forced to end ocean dis-			
Great Salt Lake production pace quickens	Dec	9	45	Foamed plastics spurs chemical expansion				posal of problem wastes	Oct	28	49
Tenneco plans to form an international				plans (tables)	July Sept	30	13 23	billion solid-waste treatment plant	July	8	25
consortium to dredge manganese-rich nodules from the ocean floor N	Sept	2	17	Goodyear answer to oil spills: huge flexible		50		Disposal of certain chemicals at sea should be stopped "immediately" re-			
Trinidad: Occidental awarded oil explora-				bags to tow away oil pumped from dis-	Sept	23	19	ports the President of Council on			
tion and production licenses N	July	29	11	abled tankers				Environment N	Oct	14	42
U.S. Army				Bayou, Tex. planned	July	15	27	Dow's new adsorption unit will recover phenol and brine from waste stream	Nov	4	60
Nerve gas disposal bugs Army Nitric acid plant bids: did the Army	Aug	19	23	Mobay introducing a urethane elastomer resin, E-290	Sept	2	28	Goodrich demonstration plant at		-	00
goof? (chart)	Aug	19	103	North Slope wells will have jacket of				Pedricktown, N.J. to prove out			
Public bids for the nitric acid plants in its \$70-75-million ordnance moderniza-				urethane insulation N Olin's urethane chemicals expansion will	July	29	11	chemical-biochemical technique for treating PVC wastes	July	1	39
tion program N	July	1	9	make it a major producer of polyester				Houston Ship Channel industrial and	out.		55
Contract goes to Weatherly Co R	Aug	5	27	film N Seamless floors: Contractors and suppliers	Oct	7	13	municipal waste-treatment plant			
Thiokol gets contract for production of illuminating cartridges N	Sept	2	17	seek to rebuild a sagging market	Nov	18	96	may be sponsored by five process industries companies	July	8	19
U.S. Coast Guard — Testing Goodyear				Solid foam bumper in '71 cars	Aug	26	12	Nerve gas disposal bugs Army	Aug	19	23
bags to tow away oil pumped from dis- abled tankers	Sept	23	19	Spray urethane foam will have big market in roofing	Nov	4	24	Nondegradable plastic litter: Here's what's happening	Sept	9	15
	- april	2.0		•				_			

Optical brighteners used in detergents				may sink water plan	Aug	19	26	letter Polyelectrolytes are boosted for waste-	July	29	5
found in fat of fish taken from dis- charge areas of two Swedish cities N	Aug	5	69	California's WRCB calls for a regional authority to save San Francisco Bay				water sludge handling	Oct	14	45
UC's Unox system tested in NYC's				from sewage and other wastes R CPI may be forced to end ocean dis-	Sept	2	28	- letter	Nov	11	5
Newtown Creek plant N Unox system chosen by New Jersey's	July	22	33	posal of problem wastes	Oct	28	49	quality of air and water at its pulp			
Middlesex authority	Oct	7	48	Cleveland faces pollution suit on Lake Erie	Aug	26	18	Racine, Wis., and Rex Chainbelt pro-	Sept	30	11
national Paper over alleged pollution				Detergents: Suffolk County, N.Y., pro-			-	ject to reduce the level of pollution			
Washington taking an inventory of	Dec	16	18	poses banning all detergents "containing surfactants manufactured from				in the Root River; five plants will treat the combined sewer dis-			
industrial wastes N	Nov	18	49	benzene sulfonate" (chart)	July	1	17	charge N	July	15	20
Zeroing in on plating wastes: three new processes gang up on cyanide waste				Disposal of certain chemicals at sea should be stopped "immediately" re-				Red tide: An important clue to the formation of red tide turned up N	Dec	2	43
from plating baths	Dec	16	54	ports the President of Council on	Oct	14	42	Standard Brands and Pennwalt ordered to reduce their waste discharges	Nov	4	17
Waste Treatment				Environment	OCT			Sweden: optical brighteners used in	1404	*	17
Centrifuges - report. Kenneth Brooks	Sept	16	33	clean up New York's busy harbor	July	29	16	detergents found in fat of fish taken from discharge areas of two cities N	Aug	5	69
Delaware: Hercules will design \$10- million solid-waste treatment plant	July	8	25	Federal 1899 pollution law may hurt more chemical companies	Aug :	5	26	Texas charges New Mexico ranchers with	Aug	5	03
Dravo applies for patents for Aeropack				Foremost Foods develops a high-protein				pollution of Canadian River by spraying the hard pesticide toxaphene on			
packaged waste treatment unit N IIT separates organics from water and gets	Sept	23	12	whey concentrate and solves a pollution problem at the same time N	Nov	25	27	range grass to kill caterpillars	July	15	25
a water stream containing only one or	0		50	Georgia wants timetable from Hercules for "adequate treatment and control				Texas pollution suits: Goodyear Tire & Rubber settles Harris County suit;			
two parts/million	Dec	16	59	or elimination" of toxaphene dis-				will install water treatment equip-			
	Nov	18	95	charges from its Brunswick, Ga., plant into Terry Creek	Aug	12	11	ment at synthetic rubber plant in Houston	July	22	10
be tested in NYC's Newtown Creek				"Goldfish to monitor plant effluents" -				Thermal: Great Lakes power com-			
plant using UC's Unox system N	July	22	33	letter	July	29	5	panies face heat discharge restrictions Vermont is suing N.Y. and Inter-	Oct	7	18
Unox system chosen by New Jersey' Middlesex authority N	Oct	7	48	over water quality	Sept	30	15	national Paper over alleged pollution		10	
Petrochemical pollution: waste-stream				Italian polluters may face criminal charges	Dec	2	43	Washington taking an inventory of	Dec	16	18
reuse, a cost-cutting must for petro- chemical plants	Oct	7	49	Japan's rapid industrial growth, lack of		-		industrial wastes N	Nov	18	49
Correction — letter	Dec	2	5	pollution legislation cause major problem depite heavy plant spending for				Zeroing in on plating wastes: three new processes gang up on cyanide			
	Oct	14	45	controls	Dec	9	42	waste from plating baths	Dec	16	54
Rollins-Purle plants to treat industrial	Dec	2	44	Justice Dept. decision to restrict en-				Water Pollution Control Federation – Meeting (43 annual) in Boston	Oct	14	45
Snell, Foster D. process turns waste in-	Dec			forcement of 1899 Refuse Act to "accidental and infrequent" dis-					0.01		
to feed	Aug	26	24	charges of pollutants draws				Water Supply California: San Francisco Bay study			
to recycle catalysts, fresh water, re-				angry reactions	July	22	16	may sink water plan	Aug	19	26
cover salt from wastes of plant making fine chemicals	Aug	5	51	indicted of polluting Hudson River's			40	California's waste-water reclamation project receives federal help	July	8	20
	Aug			tributary	Nov	4	18	Desalting see Water Treatment			
Waste Utilization Atomic energy to convert solid wastes				pulp mill sued in river pollution	Sept	2	26	H-E-W- says U.S. drinking water supply is essentially safe, but "there			
into useful products - ACS meeting	Sept	23	46	K-C charges slander and libel Lake Erie: "Project Hypo" study aimed	Oct	21	26	is still cause for serious concern" N	Aug	26	20
California's waste-water reclamation project receives federal help	July	8	20	at finding out why the lake's oxygen		00	00	Interior's Klein quits in policy row over water quality	Sept	30	15
Carborundum's solid-waste disposal	Duly		20	supply is being rapidly depleted N Machiasport, Me., coastal water pollution		26	33	Pipeline lowered into ocean in an attempt to produce an artificial up-			
demonstration plant at Orchard Park, N.Y. will daily "produce" a clean				hearings postponed	July	8	9	welling of cold, deep ocean water	Aug	19	106
aggregate-type residue called "urban			00	Allied to limit discharge into Onondaga				Waste treatment system uses multistage flash distillation to recycle catalysts,			
ore" from about 75 tons of refuse N Delaware. Hercules will design \$10-	July	15	20	Lake	Sept	23	12	fresh water, recover salt from wastes			
million solid-wastes treatment		0	25	mercury from the hydrogen streams				of plant making fine chemicals	Aug	5	51
Dow's adsorption unit will recover phenol	July	8	25	of mercury cell caustic chlorine	Dec	9	50	Water Treatment			
and brine from waste stream	Nov	4	60	Federal rulings on mercury pollution	Dec	9	50	Brackish mine waters will be converted into drinking water using Dow's Sil-			
Glass industry's new program to redeem glass bottles and iscycle them through				becloud state actions	Sept	9	20	biSul ion-exchange technology N	Oct	28	35
furnace and bottle-blowing plants	July	15	30	N.J., closed if it does not stop dis-				Brackish water converted into drinking water economically with Du			
Hercules contracts to design "the nation's most advanced" solid-waste				charging mercury into the backish, tidewater area called Arthur Kill N	July	1	39	Pont's device R	Dec	16	18
reclamation plant for New Castle County, Del	Sept	9	9	Georgia-Pacific mercury pollution row	Aug	19	23	California's waste-water reclamation project receives federal help	July	8	20
Louisiana State Univ. chemical-	oopt			Georgia seeking out possible sources of mercury contamination	July	8	9	Desalting			
microbial pilot plant at Bay St. Louis, Miss., using cellulose waste to make				Ohio goes right to the top to sue Dow	· outy	0	~	Delphic study predictions N lon-exchange pretreatment will be	Nov	25	21
protein animal feed	July	8	26	and Wyandotte over mercury dis- charges into Lake Erie	Oct	21	25	installed on the desalination plant	0	2	00
Petrochemical pollution: waste-stream reuse, a cost-cutting must for				Savannah River fish catches may				at Freeport, Tex N Westinghouse building largest single-	Sept	2	90
petrochemical plants	Oct	7	49	contain hazardous amounts of mercury	July	29	11	unit plant on the island of Malta . R	Oct	14	22
Profit from waste streams; Chemurgic	Dec	2	5	Texas warned to stop companies from				Dow believes that 80-85% of the waste water recycled in the U.S. is treated			
Council tells how	July	8	26	dumping mercury in the state's waterways	July	22	10	by plants that could be converted to eliminate nearly all the water's			
Silvichem process updates old idea, could turn wood waste into a major raw				Tighter limits on discharges as U.S. moves to ban discharges by industry				phosphorus content	Dec	23	16
material for sorbitol and other		20	20	in 17 states	July	22	35	Houston Ship Channel industrial and			
Snell, Foster D. process turns waste	July	29	30	 letter Ventron process for recovering mercury 	Sept	2	14	municipal waste-treatment plant may be sponsored by five process in-			
into feed	Aug	26	24	in water streams		16	59	dustries companies	July	8	19
Used bottles will be repurchased, crushed and glass reused	July	8	28	Weyerhaeuser's pulp mill at Longview, Wash: Court review of efforts to con-				IIT separates organics from water and gets a water stream containing only one			
Waste reprocessing: doomed by lead-				trol pollution put off indefinitely !	N Dec	16	9	or two parts/million		16	59
Process changes at refineries may hurt				Metal polluters: federal surveys to determine role of heavy metals other				Mine water demineralization plant at Wilkes-Barre, Pa., is Pennsylvania's			
profitable spent caustic to cresylic reprocessing	Dec	23	33	than mercury in contamination	July	22	19	Dept. of Mines and Westinghouse			
Waste treatment system uses multistage	Dec	23	33	Michigan's Milliken will sign first law giving citizens right to sue polluters .	July	15	28	Oil spills see Water Pollution	V Oct	28	14
flash distillation to recycle catalysts, fresh water, recover salt from wastes				Montrose Chemical denies DDT dis-				Oxygenation for waste treatment will			
of plant making fine chemicals	Aug	5	51	charges into Santa Monica Bay Nerve gas: There's no evidence of leaking	Nov	4	16	be tested in NYC's Newtown Creek plant using UC's Unox system !	v July	22	33
				from cargo ship sunk in the Atlantic .	N Nov	4	10	Unox system for sludge treatment			
Water Bromley of Univ. of Calif. has				New Jersey selects Passaic River for a model demonstration project to test				chosen by New Jersy's Middlesex authority	N Oct	7	48
come up with an "economical				new pollution control efforts	N Sept	1 23	12	Polyelectrolytes are boosted for waste-			
and technologically feasible" process that uses sea water to				Oil spills BP's 1100, a nonionic emulsifier, used				water sludge handling	Oct Nov	14	45 5
scrub sulfur oxides from power	-	-	05	to break up oil slicks from "Pacific	M M.		G.A.				
plant smoke stack gases	Sept	2	25	Glory"	N Nov	4	64	Wax Humble will phase out its production at			
make water and oxygen from			40	flexible bags to tow away oil pumped			10	Bayonne, N.J. plant	N July	1	10
Polywater – fact or fiction? Here's	l Dec	2	43	from disabled tankers	. Sept	t 23	19	Polymer blends prices	N Nov Dec		
the inside story	July	1	34	and market products to combat "oil	N 0	-	10	Weed killers - Aldrin and dieldrin in			
Water Pollution				pollution and lead poisoning" Japanese maritime fleet charged with		28	14	aquatic environments: ecology faction presses for more restrictions but			
Allegheny Ludlum Steel's Brackenridge			10	dumping oil into sea	N Aug	5	69	pesticides demand continues to grow .	. Aug	5	21
Works water pollution control project F Armoo Steel's dumping of cyanide,	Nov	4	18	Nixon may ask for more controls over manufacture, storage, shipping				Wheaton, Don, Jr Wall Street view: tough to borrow for pollution equipment	t Sep	t 30	40
phenois and other chemicals into				of hazardous chemicals and spill-			40	Whey - Foremost Foods develops a			
Houston Ship Channel is creating a "health hazard" — Justice suit				reporting network	. Sep	t 23	42	high-protein whey concentrate and solves a pollution problem at the same time .	N Nov	v 25	27
filed	N Dec	16 25	9	minute quantities of hydrocarbon			15	White, William Jr Ott Chemical's			
British waste hassle	Nov	25	31	pollutants in water Oxygen injection: Matter of motive —	. Aug	26	15	president: he likes the autonomy of a small company	. Sep	t 23	3 58

Vigs Japan's Komachi will import UC's				
Dynel and turn out about 200,000 hairpieces/month	Dec	2	20	
Monsanto and Toray Industries plan entry into wig market	Sept	30	17	
Wilminton, Del., gnetto tells chemical firms: "It's up to you", Meyer Lurie Wilson, Forbes — Freeport Indonesia president (v-p of Freeport Sulphur):	Sept	2	37	
He's been a rock collector all his life	July	8	48	
life	Sept	30	17	
Wood Aluminum, wood or glass-fiber-rein- forced-plastic for recreational				
vehicles	July	15	56	
synthetic wood at Kawasaki R Silvichem process updates old idea, could turn wood waste into a major raw material for sorbitol and other	Aug	12	16	
World Trade Writers Assn. — Burlington's	July	29	30	
Lynn says old rules hurt trade	Dec	23	16	
X				
Xanthates Canadian Industries plans plants for				
liquid xanthates; first will be built at Copper Cliffs, Ont	Aug	5	84	
ing developed from starch xanthates and	Nov	11	43	
xanthides N Xenon – Radioactive krypton and xenon can be removed from nuclear power plant off-gases by new system N	Oct	14	42	
Xylene Aromatics: output up, profits down,				
demand soft (chart) Ortho-xylene will be used instead of	Aug	12	7	
naphthalene in new phthalic plants (chart)	July	1	29	
Yugoslavia - Du Pont technology pact with Viskoza-Loznica for the production of cellulose film N	Nov	25	32	
Z				
Zambia – Fertilizer plant: boost for coal – letter	Sept	16	5	
Zinc Du Pont process for removing cyanide		.0	440	
from zinc electroplating rinse water . N Pollution curbs result in shortages,	Nov	18	113	
higher prices in Japan	Sept	9	26 41	
by ESB Inc. N Zinc Oxide — Prices N Zircon — Plasma processing dissociating	Oct Sept	14 23	41 22	
zircon sand to a composition essentially 70% zirconia and 30% silica N Zornow, Gerald – Eastman Kodak's	Aug	19	97	
president: Athlete-salesman makes the right decisions	July	1	48	
Author Inc	de	K		
Brooks, Kenneth Centrifuges	Sept	16	33	
Layman, Patricia L. American beauty: a \$4.6-billion market in cosmetics, toiletries	Oct	21	54	
Lurie, Meyer "It's up to you"	Sept	2	37	
Schultz, Gregory V. Materials handling	Nov	18	77	
Plant site:	Aug	19	51	
our party in	1d	θX		
ABCD – PE unit onstream at Ragusa, Italy	Nov	18	74	
Australian investments may be merged . N ARC Chémical Co. — formed: will produce		18	38	
specialty monomers Rabbott Laboratories — Dipet, biological control for certain leaf-eating insects approved for experimental use N June	Dec	9	14	
24-48,	Aug	19	99	

Nearly \$2.4 million in cash profit-sharing checks go to eligible employees N Agfa — Geveert-Agfa see under name Air Conditioning & Refrigeration Whole-	Dec	9	7
salars - Cleveland Refrigerant ass makers	Sept	9	17
are hauled up on conspiracy charges. Air Products & Chemicals — field testing about 15 cyclic fluorocarbons. N	Sept	2	90
Oxygen producers zero in on waste treat-	Nov	18	95
ment (chart) Air Reduction Co. — oxygen producers zero in on waste treatment (chart) Aktieselskabet Meraker Smelteverk — Koppera, Norway, silicon plant ex-	Nov	18	95
pansion	July	8	33
Delfzijl	Nov Oct	18 14	73 37
Noury & van der Lande see under name Sales and earning N Sept 2-81, R Salt plant in northern Holland to be	Dec	16	40
built R July 8-33, U.S. subsidiaries going ahead with merger plans; merged company will be	Oct	21	73
called Akzona	Sept July	2 22	81 38
Akzona, Inc. – acquisition of Armour's three subsidiaries almost certain N	Dec	9	7
AKZO's U.S. subsidiaries going ahead with merger plans	Sept	2	81
New company formed by merger of	Oct	7	18
American Enka. International Salt and Organon, Inc	Aug	19	27
executive: He keeps on top of his job and the world around him	Nov	11	56
Alberta and Southern Gas — natural gas	Oct	7	37
exports to U.S. boosted N Alberta Gas Trunk Line – preliminary application with NEB to build natural gas pipeline from the Arctic N Alberto-Culver – Culver Chemical	Nov	4	10
Co. div. sold to Northern			
Petrochemical	Aug	19	62
asbestos spray Albright & Wilson — Marchon Italiana see under name	Sept	16	02
Sales and earnings	Dec	9	12
three-month strike ends	Nov	4	16
in southwest Kalimantan	Nov	18	46
Application	Aug	5	27
Arzew, Algeria	Dec	2	51
Works water pollution control project , R Allen-Babcock Computing — time-sharing firms offering real-time order-entry and	Nov	4	18
accounting packages	Aug	12	23
quotas	July	29	27
Bissinger, Frederick, elected president		9	13
of SOCMA Two new jobs for a busy man Carpet-grade continuous-filament nylon	Dec Dec	9	54
prices	Sept	30	21
hauled up on conspiracy charges Coal shortage chills chemical profit	Sept	9	17
hopes (chart)	Oct	21	21
bought by Wellington Tube Holding and Salem CorpR Connor, J.T. see light at tunnel's end for sluggish giant	Sept	9	20
for sluggish giant	Aug	12	27
Asia	Aug Sept	12 23	36 39
Fiber makers lay off thousands as their market weakens	Oct	21	22
Pibers Div. — home sewing market gets push from fiber makers	Sept	2	24
Fire and explosion at Baton Rouge HDPE plant not determined N Fluorocarbon prices N	Sept	2	18
Fluorocarbon prices N Georgia seeking out possible sources of mercury contamination N	July	1 8	27
Georgia asks company to submit within 30 days a "conceptual plan for essentially complete elimination of	outy		
mercury in your waste discharge". N Hydrofluoric acid prices N Sept 16-58, . N Iranian Bandar Shahpur complex invest-	July Dec	29 16	11 45
ment to be sold to its partner National Petrochemical	Dec	16	37
Iranian petrochemical fertilizer complex dedicated	Nov	11	39
Mercury discharge into Onondaga Lake	Sept	21	25 12
to be limited N Mercury suits Nitric acid prices N	Aug	5 16	26 45
4-24,	Nov	11	27
Sales and earnings, first-half '70 Shares of own common to be bought N Soda ash prices N Soda ash producers switch to trona to	July July Dec	8 16	19 9 45
counter rising costs	Dec	9	32
apair, various tons Anna Connecence. Mole			

minority hiring needed	Aug	12	9
Strike at Buffalo, N.Y. dyestuffs plant	July Dec	8 16	19 45
Allied Chemical Canada – isocyanates unit	Dec	2	52
of used fuel from nuclear power plants To build "world's largest" private	Sept	16	21
nuclear plant	Aug	26	16
propelled by their low-pressure flotation tires	July	8	36 10
Alscope Consolidated Ltd. – nitric acid pulping process may get try-out in	Dec	23	
Oklahoma	July	15	79
plex to be suspended	Oct	14	22
cycling method for assuring pollution- free atmosphere	Aug	5	17
Recycling aluminum can program N	July Aug	26	15
Shutdown of potline at Alcoa, Tenn; start-up of two major expansion pro- jects in Tenn. and Ind. postponed Walker, Eric, vice-president: He was	Dec	2	17
graduated from the halls of ivy to big business	Oct	21	104
	July Oct	28	27 45
program Amar Dye-Chem — licenses technology to Anilinas Argentinas N American Can Co. — can-maker talks could	Aug	5	80
affect labor picture for nonferrous	Nov	25	14
metals American Cyanamid – agreement to acquire Elizabeth Arden Sales predates Eli Lilly's arrangement of EAS acquisition R		14	22
AC will sue court for enforcement of an	Oct		22
agreement	Oct	28	14
be run by Lederle Labs. Div	Nov	11	23
28-21,	Dec	2	26 27
Ervin merger planned R	Aug	12	13
Farming venture partnership with J. Hancock Mutual Life Insurance R Melamine plant at Fortier, La	Nov Oct	4 21	18 32
N.J.'s Dept. of Environmental Pro-	Aug	12	6
tection charges air pollution N Sales and earnings July 22-19, N Sulfate process dioxide plant at Piney	Dec	9	7 45
river, Va., will be shut down N Tetracycline case: federal court okays offer to settle damage suit	Dec	1	9
offer to settle damage suit	Nov	18	100
national Salt and Organon, Inc. R Aug	Sept	2	81
19-17, N Three-way merger Carpet-grade continuous-filament nylon	Oct	7	18
prices	Sept	30	21
glittering market for chemicals American Hoechst — acquisition of Stauffer's 50% share in Stauffer Hoechst	Dec	16	27
Polymer; new company called Hoechst Polymer	Dec	23	14
Somerville, N.J. \$20-million complex will include corporate headquarters,	Oct	21	73
sales, research and manufacturing units	Oct	14	19
American Laundry Machinery Industries — vapor-phase unit to impart permanent press	Nov	11	43
American Lead & Zinc — cadmium prices	Aug	19	85
International sets up as a metals pur- chasing and trading division R	Dec	2	22
Intalco aluminum plant production cut	Oct	7	19
site near Astoria, Ore., may be bought N Republic Carbon Products see under name	Sept	2	18
Zinc prices	Sept	9	41
new '71 model year N	Aug	19 26	17
Strike causes 28,3% drop in sales	Oct	14	21
Radiation Technology	Sept	23	19
refinery building boom (table) Professional unionism at Amoco set	Nov	25	11
back by company move	Sept	23	19
American Potash & Chemical — titanium oxide technology for Japanese plant Remerican Smelting & Refining —	July	8	34
acquisition of four Illinois coal mines from Peabody Coal N Lead prices N Aug 19-85, N	Aug	5	17
Lead smelting and retining Selby	Sept	9	17
Plan for cutting air pollution at Tacoma, Wash., plant may be accepted, but			10
San Francisco pollution damage suit claims that pollutants caused the		9	9
deaths of livestock N	oapt	3	9

Smelter wins a 7-month variance from Texas Air Control Board for opera-		1.4	22	Merger with Delta Plastics R Nylon salt used to produce nylon 6/6	Nov	11	23
tions	Oct	14	22	to be swapped with Rhone-Poulenc	Nov Aug	5	56 63
search company confirms the validity of Silva Thins cigarette advertising				Ascension Chemical Corp. — Black-owned co., a chemical industry first	Nov	11	28
	Sept	2	18	Ashland Oil — acquisition of Foster Grant awaits approval	Nov	11-	14
ovide prices N S	Sept	23	22	Grant awaits approval	Dec	23	15
Ammonia Co. of Queensland Pty. –	Nov	18	38	formed	Sept	9	20
mmoniaque Synthetique et Derives -	July	8	15	for British Steel's Anchor plant R Associated Octel – ethyl chloride	Sept	2	85
Amoco Canada — Pan American Canada Oil see under name Amoco Chemicals Belgium — isophthalic				plant	Dec	16	42
acid plant at complex near Geel planned; also increasing oxidation capacity for aromatic acids pro-		16	10	for the U.S. Navy	Sept	16	25
Amoco Chemicals Corp Avisun-	Dec	10	10	Grass to reseed vital tundra ground on Alaska's North Slope N	Nov	18	38
	July Dec	8 2	41 35	Harvey, III., research center lays off 40	Dec	2	22
Amoco Chemicals Pty Patchogue-	July	29	26	of bringing natural gas from Alaska's North Slope and northern Canada to central Canada and U.S. Midwest . N	July	22	23
Amoco Production Co Pan American	Dec	2	22	Sales and earnings	Oct	21	17
Petrolem Corp. will officially become APC in Feb. '71	Nov	4	18	Aug 5-18,	Aug	12	6
acquires full ownership N	Dec	23	31	amines joint venture in Barcelona, Spain	Oct	14	38
Amoniaco Portugues — Estarreja complex expansion approval sought	Oct	14	38	Moraine Products files antitrust suit over licensing of remedies for intestinal gas	Oct	7	17
in Kentucky will be equiped with Alcoa's recycling method for assuring				Wilmington, Del., ghetto tells chemical firms: "It's up to you". Meyer Lurie	Sept	2	37
pollution-free atmosphere N Columbia Falls, Mont., plant will cut	Aug	5	17	AB Atomenergi — nuclear generator may be converted to burn oil	Sept	2	89
Production	Oct	28	21	Atomic Energy of Canada Ltd. — Canadian GE heavy-water plant to supply AECL. N	Oct	14	42
research	July	15	79	Heavy water from Sweden's inoperative Marviken reactor purchased N	Sept	16	68
put increase ANIC – labor peace: key to snapping Italy's long slump	July	8	33	Sees heavy water in Canadian, world nuclear power future	July	1	40
Phillips Petroleum's polydiene pro- cess to make solution elastomers			16	pelled by their low-pressure flotation tires	July	8	36
licensed	Aug	12	16	Austin Research Institute — polymer coating for pesticides will be tested N Austin Science Associates, Inc. — water-degradable polymers: Organic acids that	July	8	21
Synthetic Rubber's agglomeration process	Oct	14	38	can be polymerized then slowly degraded are basis for packages, controlled-re-			
from Amar Dye-Chem N	Aug	5	80	lease pesticides, drugs Austral Oil — Project Rulison: apprehen-	Sept	2	65
Annin Flag Co. – synthetic fibers, dyes, polymer coatings and plastics are among				sion mounting concerning success N Three-stage production testing pro-	Aug	5	59
chemical industry products aided by booming demand for flags	July	29	36	gram	Nov	18	18
melting capacity installed N Apple River Chemical – ammonia	Oct	7	37	Australian investments may be merged . N Phosphoric acid, liquid, purchased from Fertilizantes Fosfatados Mexicanos . R	Aug	19	17
business bought by St. Paul Ammonia Products	Oct	28	21	Australian Fertilizers Ltds. – profit loss . N Avisun Corp. – Amoco-Avisun con- solidation creates \$320-million	July	8	32
Products to buy all plant assets R Applied Automation Inc. – offers	Aug	19	27	chemical maker Avondale Mills – wage increases	July Sept	8 16	41 24
money-back guarantee on computer control systems	Aug	5	69				
Total combine almost all their petrochemical operations N French chemical industry in position to challenge Europe's leaders (map,	Sept	16	18				
table)	Sept	9	57				
posed	July	15	65	BUSS Ltd Chemico obtains rights to technology for making hydro-			
oxygen unit	Sept	2	85	fluoric acid from fluosilicic acid or fluorspar	Nov	25	27
with lots of muscle	Sept	2	57	TVA nuclear plants	Sept	9	10
plant will about double industry's terpene resin capacity	Nov	18	103	Badger Co. — Korean plant	Dec	16	38
Arkansas Louisiana Gas Co. – natural gas rate upped	Sept	30	15	acrylonitrile plant in South Korea R BASF Corp. – phthalic addition at	July	15	32
Pipeline from Texas Panhandle across Okla. to Wilburton, Okla. to be built Armco Steel Corp. — commercial-scale	Nov	11	23	South Kearny, N.J. (chart)	July	1	29
direct-reduction plant	Sept	2	22	U.S. operations may be consolidated N	Aug	5 15	63 73
Dumping of cyanide, phenols and other chemicals into Houston Ship Channel				BASF Systems — BASF's U.S. operations may be consolidated	July	15	73
is creating a "health hazard" Justice suit filed N	Dec	16	9	BASF Wyandotte — New company comes into being Dec. 31 N	Dec	2	13
Houston. Tex. plant air pollution suit	July	22	10	Badische Anilin — & Soda-Fabrik — acquisition of Grace subsidiary Howards	1.1.		-
Armeen L-9 (2-amino nonane) plays	Dec	9	7	& Sons R July 1-18,		29	28
a key role in a new lithium flotation process	Sept	2	90	Acquisition of Siegle Group includes Kast & Ehinger		1	31
phosphate-free, and presumably NTA- free, heavy-duty detergent N	Dec	23	40	Ammonia buying deal with Stikstof Ammonia capacity plans for Antwerp complex canceled	July	8	15
Armour Industrial Chemical — acquisition by Akzona almost certain		9	7	BASF Wyandotte see under name "Big Three" are spearheading the West	July	0	15
Armour Industrial Chemical – fatty acid prices	Aug	12	21	German expansion thrust: firms plan worldwide expansion; major pro-			
Armour Industrial Products – acquisition by Akzona almost certain N Armour Leather – acquisition by Akzona	Dec	9	7	jects (tables)	Sept I Oct	23 14	35
Armstrong Rubber – tire plants back	Dec	9	7	pany re-evaluating worldwide in- vestment program, no major ac-			
after a 108-day strike	Nov	18	45	quisition plans seen	July	22	18
Asahi Chemical – glass-fiber plant							

'69 profits (table)	Oct	14	37
still sought	Aug	26	28
Phrix-Werke see under name Polystrene unit at Antwerp construction halted	Dec	2	51
processing is shaping up N	Nov	18	114
Process for laminating polyolefins to	July	8	39
	Oct	7	42
Sales and earnings in first-half '70 N Third-quarter '70 N	Aug	12 18	15 73
Sells 51% interest in Westfalenbank H	Sept	2	85
Timm, Bernhard, chairman of the board: Physicist, pilot zooms com-			00
pany to new heights	Aug	5	90
Owens-Illinois trying to sell sugar	Nov	18	37
Bakelite Xylonite - Britain's plant	Nov	4	
buildup (table)	Nov	4	52
Procedures	Dec	23	18
under name Baldwin-Lima-Hamilton — distillation			
goes to work on waste	Aug	5	51
quired by Power Gas Corp N Banca Industrial Fierro — partner in	Aug	12	33
Spain's first petroleum coke plant R Bank of New York – Wheaton, Don Jr. –	Dec	16	42
Wall Street view, tough to borrow for pollution equipment	Sept	30	40
Basic Inc. — Basic Chemicals div. — Magnesium oxide and technology for			
scrubbing mixture for recovering sul-	July	15	69
furic acid from stack gas	July	29	8
Battelle Memorial Institute – activated carbon system to remove cyanide			
ions from plating wastes Columbus Labs' forecast shows there will	Dec	16	54
be fewer real dollars for H&D in	Dan	22	22
71 Italy plans to triple output by '80 Bausch & Lomb — Soflens hydrophilic	Dec	23 29	23 26
contact lens - approval to market	hale:	22	24
sought	July	22	34
chloric acid plant at Antwerp R Bear Archery – plastic bows and arrows	Dec Oct	16 28	42 38
Beaunit Fibers — finer-denier polyester tire cord for Crazy Whcels bike tires	July	8	36
Bechtel Corp. – acquisition of C&I/Girdler, Inc N	Aug	5	70
Contract for California's waste-water reclamation plant	July	8	20
polypropylene plant contract R	Oct	7	43
Bechtel Laboratory – atomic energy to convert solid wastes into useful pro- ducts – ACS meeting	Cont	22	AC
Beecham Group – acquisition of Uhu Werke, H.U.M. Fischer	Sept	23	46
Beecham Pharmaceuticals div. selling	Aug	19	26
Bell & Howell — Du Pont to purchase analytical instruments line manu-	Aug	13	20
factured at Monrovia, Calif N Bell Laboratory – tiny laser that operates	Aug	12	6
continuously at room temperature can greatly increase capacity of			
communications systems N Bermas Plastics — General Cigar plans	Sept	9	55
acquisition	Nov	11	13
heaters Bethlehem Steel Corp. – coke ovens:	July	15	60
a major source of coal-tar chemicals	Sept	2	21
for years to come (charts)	Nov	18	42
Seeking a tax exemption for water pollution control units at Lackawanna	0	22	10
plant R BICM - PVC plant at Pernis, Netherlands R	Dec	23 22	18 38
Billiton-M&T Chemische Industries — M&T Chemicals attains full ownership R	Sept	16	25
Bio-Assay Labs. — analytical labs are supplying mass screening services to help identify habitual drug users			
among potential employees	Dec	2	41
Biochemical Procedures — Baker Chemical acquires Uni-Tech	Dec	23	18
Bio-Derivatives — L-dopa: which way to a winner?	Oct	21	99
Bjorksten Research Laboratories - foamed	July	29	34
Booz, Allen & Hamilton — Snell, Foster D. division process turns waste into	,	-	
Borden Chemical Corp. — Adhesives &	Aug	26	24
Chemicals Div.'s headquarters is now in Columbus. O. R.	Sept	9	20
Building growth spurs formaldehyde	Sept	16	60
Formaldehyde capacity increase at Missoula, Mont. N Aug 5-17, N	Nov	25	9
Streptomyces fermentation residues as	Dec	2	30
Borg-Warner - ABS: a clear grade of ABS	Nov	4	63
Centaur Engineering Div. — ABS system for recreational vehicles construction	July	15	56
Marbon Div. – ABS wraparound for	Aug	12	9
Marbon Div. — sells its line of adhesives	-		

for ABS to Solar Compunds R Plastic pipe plant in Vernon, Calif.,	Dec	23	18	will be built at Copper Cliff, Ont Stainless steel cooler for sulfuric	Aug	5	84	plants System will help utility meet stack emis-	Sept	9	51
	Dec	23	18	acid plants developed N Sulfuric acid plant will be operated for	Oct	14	41	sion regulations without using low- sulfur fuel, also yield sulfuric acid	July	15	69
help to meet stack emission regulations					July	8	27	Chemical Separation Corp. – ion-ex- change pretreatment will be installed	July	10	03
without using low-sulfur fuel, also yield	July	15	69	sulfite pulping process will yield pulp				on the desalination plant at Freeport,			
arrows	Oct	28	38	at least as strong as sulfate pulp, with- out the usual strong odors	Aug	26	31	Tex N Chemical Services, Inc. – identical	Sept	2	90
Brand-Rex — AKZO's U.S. subsidiaries going ahead with merger plans; merged				Canadian-Montana — natural gas ex- ports to U.S. boosted N	Oct	7	37	chlorine bids may develop into a federal case	July	8	9
company will be called N.C. Akzona . N	Sept	2	81	Canso Chemicals — chlor-alkali plant for Port Abercrombie, N. Scotia	Sept	9	44	Chemicals & Phosphates Co. – ammonia and urea plant at Haifa, Isreal R	Nov		74
Branson Sonic Power — ultrasonic "sewing" machine	Oct	7	48	Canton Containers - acquired by Northern				Chemische Fabriek Servo - acquired			
Brasileira de Sinteticos — Hoechst ac- quires majority holding; plans nylon				Petrochemical	Dec	16	18	by Huels N Chemische Werke Huels AG – ac-	Sept	23	39
and polyester fibers expansions R Brewer Pharmacal – acquisition by	Nov	11	23	develop the Strait of Canso, Canada, as a major world port	Sept	9	44	quisition of Chemische Fabriek Servo . N Plastic litter: exploring a self-de-	Sept	23	39
Parke-Davis approved R	July	8	20	Carbon Oil — Spain's first petroleum coke plant	Dec	16	42	stroying polyethylene	Sept	9	15
Bridgestone Tire — Japan grants per- mission for Goodyear's joint venture in				Carboquimica — phthalic anhydride				Profit pinch is explained by President F. Broich	Dec	16	37
polyisoprene Sept 23-41,	Dec	2	52	Carborundum Co. — solid disposal demon-	July	8	33	Profit squeeze tightens Sales and profits N July 8-31, R	Oct	7 23	18
company will go to court again if FTC regulation is adopted	Oct	28	20	stration plant at Orchard Park, N.Y., will daily "produce" a clean aggregate-type				Chemplex Co. – PE prices	Sept	16	24
Tetracycline case: federal court okays				residue called "urban ore" from about 75 tons of refuse	July	15	20	for Profits" - book	July	8	26
offer to settle damage suit N B.C. Interior Sawmills – acquired by	July	1	9	Cardinal Proteins - Japanese company	outy		20	Chemway misrepresented the anti-			
Weyerhaeuser's Kamloops Pulp & Paper Div	Dec	16	18	is interested in taking half of fish pro- tein concentrates output N	Nov	4	49	bacterial property of Dr. West's "Germ fighter" toothbrush N	Dec	16	24
British Enkalon — Britain's plant	Nov	4	52	Carlisle Tire & Rubber — flotation tires Carroll, J.W. & Sons — integrated proc-	July	8	36	Chevrolet — Vega is competitive with imports because of plastic innovations	Aug	26	12
British Oxygen Co. — sales and earnings				ess for the manufacture of basic extrusion-grade acrylics	Aug	5	25	Chevron Chemical – dodecylbenzene	riug		
N July 1-31, R British Petroleum – chemical operations	Dec	23	18	Cascade Natural Gas — charges El Paso				technology for Colombian detergent plant	Aug	12	16
Wethacrylate for gas station signs	Nov Sept	11	21 79	"unfairly" gives a high-priority in- terruptible wholesale natural gas ser-				Gasoline additive uses polybutene amine, F-310, to cut auto exhaust emissions;			
Nonionic emulsifier, BP1100, used to break up oil slicks from "Pacific				vice to "ineligible" industrial customers in the Pacific Northwest	Sept	2	25	FTC disputes advertising claims (chart) Chevron Oil — fined \$1 million for fail-	Oct	7	46
Glory"	Nov	4	64	Catalana de Gas - Barcelona's regasifica-	July	1	31	ing to equip its oil wells in the Gulf of Mexico with storm chokes or similar			
	Dec	16	40	Catalysts & Chemicals Co Chemcell's	00.7			safety shutoff devices N	Sept	2	17
Wulff process acetylene plant closing down ahead of schedule N	Dec	9	49	plant completes partial conversion to methanol catalyst N	Sept	9	55	Chinese Petroleum Corp. — petrochemicals getting top Taiwan priority (map)	Oct	21	77
BP Chemicals — Britain's plant buildup	Nov	4	52	Catalytic Inc contract for Velsicol benzoic acid plant in Tennessee R	One	7	19	Chisso Corp. – contract for Korean plant	Dec	16	38
BP Oil - N.J.'s Dept. of Environmental				Celanese Corp. — Celcon: polyacetals				Chisso Engineering — SECT system rights licensed to Thermo Mfg N	Nov	11	43
British Steel Corp oxygen unit for		12	6	prime for big future (chart & tables) Contract to ship chemicals from Corpus	Aug	5	63	Chrysler Corp. — strikes causes 29.4%			
Anchor plant	Sept	2	85	Christi, Tex., to Chicago by barge Coupling agent improves acetal copolymer	Oct	14	17	Strike deadline is Sept. 14	Oct Aug	14	21
adjacent to bromine extraction operation	Aug	12	13	tensile strength N Fiber makers lay off thousands as their	July	15	80	Unions denounce the initial contract proposals of the "Big Three"	Sept	9	16
Brown, John, Ltd. — gas separation plant	riog		.0	market weakens	Oct	21	22	Chubu Chemical - styrene monomer plant	July	8	34
	Oct	14	22	Formaldehyde capacity increase at Bishop, Tex. N Aug 5-17, N	Nov	25	9	Chung-ju Fertilizer — Korea Pacific	July	0	34
Buckeye Pipeline Co. – may undergo a full-scale investigation by Ohio PUC . N	Aug	19	18	Home-sewing market gets push from fiber makers	Sept	2	24	Chemical see under name Ton Suh Petrochemical see under name			
Bunker Hill Co. – sulfuric acid plant at Kellogg, Ida., is completed R	Oct	28	21	National Distillers antitrust suit against Bayer, Hoechst and Celanese relating				Church & Dwight Co. — Arm & Hammer Washing Soda as a water conditioner			
Burlington Industries - Lynn, Robert	Dec	23	16	to VA and acetaldehyde R	Aug	12	13	recommended	Aug	12	31
Pay raise for 75,000 workers N	Sept	9	9	Not suitable to contract out all advertising, but sees merits in the plan				partner in Ciquine Petroquimica N	Aug	5	79
Wage increases	Sept	16	24	for the small industrial account Polyester fiber prices N	July	29 11	16 27	Cia. du Polyisoprene Synthetique — polyisoprene synthetic rubber plant at			
bids may develop into a federal case . N	July	8	9	Stock purchase: company will buy up to 500,000 share of its common N		19	17	Le Havre planned N Cia. Techica Industrie Petroli – CSB	Oct	28	14
				Teaching distributors how to sell sol-		19	86	see under name Cia. Uniao Fabril – acrylic fibers plant			
				Work force cutback	Aug	14	23	at Barreiro	Oct	14 12	38 16
				World headquarters to be built on N.Y.'s Avenue of the Americas N	Sept	23	12	Ciba Ltd Chemical & Dye Div Geigy-	Aug	12	10
				Celanese Colombiana — polyester fiber capacity boost	July	8	33	Ciba merger causing reshuffling of some divisions	Nov	4	18
CDF-Chimie —PVC marketer R CF Industries, Inc. — new name for	July	22	38	Celanese Fibers – polyester sales N Celanese Plastics – nylon molding		25	21	deStevens see clinical research crisis as results of new FDA rule N	Oct	21	88
Central Farmers Fertilizer Co R	July	8	20	prices N	Oct	14	28	Geigy merger proposal gets U.S. Justice okay R July 15-32,	July	22	18
C&I/Girdler, Inc. – acquired by Bechtel Corp N	Aug	5	70	Central Farmers Fertilizer Co. – name changed to CF Industries, Inc R	July	8	20	Antitrust division spells out require-		29	15
Contract to build Standard Gravure's solvent recovery plant		21	26	Chang Chun Petrochemical Co. — methanol plant at Miaoli, Taiwan R	Nov	18	74	ments for merger	July Oct	28	43
CIT Financial Corp. — The gift package: glittering market for chemicals	Dec	16	27	Chem Lab Corp. – acquired by American Cyanamid	Nov	11	23	Merger causing reshuffling of some divisions	Nov	4	18
CPC International - Corn Industrial			27	Chem Systems Inc. — merger agree-		2	44	'69 profits (table)	Oct	14	37
Division — corn prices N CPI-Allied Chemical — technology for				ment with DeBell & Richardson N Chemalloy Minerals — Spodumene being				48.4% of Soc. de la Cornouaille Française's shares	Cont	23	19
Hawkeye Chemical's urea expansion . N CPS Industries — The gift package:	Nov	18	114	tested in flotation process N Chembond Corp. – building growth spurs	Sept	2	90	Cie. de Petrochimie - Gonfreville, Le			
glittering market chemicals	Dec	16	27	formaldehyde expansions	Sept	16 12	60 16	Harve, buildup	Sept	9	58
Cie's high-density PE process N	July		33	Cornwall, Ont., plant completes partial		9	55	et Industriels du Sud-Est - subsidiary			
Cabot Corp. — carbon black prices N Japanese court denies patent rights	Dec		40	conversion to methanol catalyst N Employee layoff as company reports				will consolidate Ugine's holdings in plastics fabricating firms	Aug	5	84
on oil-furnace carbon black process . N Texas Air Control Board gives final	I Aug	19	97	loss N Chemco – proposed regulations on the	Aug	26	28	Ciquine Petroquimica — formed to produce 2-ethylhexanol and n-butanol			
deadline to halt pollution N Calgon Corp. – tail-gas treatment: carbon-	l July	y 8	10	imports of petrochemical feedstocks getting close scrutiny	Aug	19	97	at Salvador, Brazil	Aug	5	79
catalyzed oxidation of SO2 in gas				Chemed Corp. — established by Grace . N		2	14	marketing and purchasing men turn	lister	0	20
steams	Sep		52	Chemetics — Canso Chemicals see under name				thumbs down on plan N Cities Service Co. – Lake Charles, La.,	July	8	28
Puertollano expansion	Aug	9 5	84	Chemetron Corp. — Belle, W.Va. onsite nitrogen plant capacity doubling; com-				facilities for production of desulfurized fuel oil metallurgical-grade coke R	Sept	16	25
see under name Camp Chemical Co. – acquisition of				pletion set for Feb. 71 F Cardox Div. will build liquid carbon	Dec	9	14	Natural gas rate cuts	Sept	30	15
Utility Products	Dec	9	29	dioxide plant at Getty's Delaware	R Nov	4	18	tection charges air pollution N	Aug	12	6
Boosts sales 70% with accent on mar- keting	Dec	9	29	City complex				Old tires turned into carbon black N Clark Schwebel Fiberglass Corp. — glass-		30	31
Canada Deuterium Uranium — reactors for Ontario's nuclear complex	July	v 1	40	separation plant near Houston, Tex F Chemical Construction Corp. — BUSS'	R Aug	26	18	fiber plant in Japan	l Aug	12	16
Canadian General Electric Co., Ltd Port Hawkesbury, N. Scotia, heavy-water				rights to technology for making hydrofluoric acid from fluosificic acid				gift package: glittering market for	Dec	16	27
plant July 1-40,	V Oct	t 14	42	or fluorspar obtained	Nov	25	27	Cleveland-Cliffs Iron Co Robe River Iron		10	21
Canadian General Motors — strikes entering its fourth month and there is no sign of				Low bidders for Army nitric acid plants	V July	1	9	Ore project in Western Australia set to begin	l July	8	20
settlement	Dec	c 16	16	NAPCA awards contract to Chemico to study atmospheric emissions of plants				Cleveland Potash — Britain's plant build- up (table)	Nov	4	52
fits up	Au	g 12	16	that process phosphate rock ! Study of cost effectiveness of current	N Aug	26	33	U.K. tax scheme turns industry off Cliffs Copper Corp. – copper venture	Nov	18	74
(tables)	No	v 25	33	methods of controlling SO2 and acid-				with Du Pont will try bacteria approach N	V Oct	28	35
Liquid xanthates plants planned; first				mist emissions from sulfuric acid				Coastal Chemical, Inc identical chlorine			

The first contained terms found case. 1 July 2 July								_					
	bids may develop into a federal case . N	July	1 8	3	9	Cooper Tire & Rubber - Jahor contract	Oct	7	42	chemical industry products aided by	July	29	36
Care Date Antoning Manager Manager Care Control Contro	phosphate unit at Pascagoula, Miss. R	July	29) 1	9	settlementN	Nov	13	14	Deutsche Entwicklungs - German Remedies	ou.y	20	00
Section Company Comp	Coastal States Gas Producing - Corpus					Cooper, William & Nephews (Australia)							
Control Peach Peach Control Peach Peach Peach Peach Control Peach		Auc	12	2 1	2	tested N	Aug	12	33	and ketone plants at Meerback R	Aug	12	16
Approximate from the content of th	Gas-gathering system from western Texas					Copolymer Rubber & Chemical - new			42	Deutsche Shell - xylene unit at Godorf, W.	A	10	0
Approximate from the content of th	gas reserves to Dallas	Sep	it 30) 1	7	Coppee-Rust — contract for Monsanto's	Aug	5	43	Diamond Plastics — know-how for Israeli	Aug	12	0
Content Cont	Monsanto's Lopac 90	July	y 1	3	19	ABS plant at Antwerp R Oct 14-38, R				polystyrene plant , R	Dec	16	42
Section Compare Comp	Cochin Pipe Lines Ltd approval to						Aug	5	80		Sept	9	41
Commonwealth Comm	at Empress, Atla., to the Kerrobert					port at Tirgu Mares R	Nov	18	74	Coal shortage chills chemical profit hopes			
Commonweal continger formation in the property of the continger of the c	Sask, terminal	Sep	ot !	9 1	7		Διια	5	25	(chart)			
File Continues						Corning Glass Works - machinable glass				Mercury suits	Aug		
Part	of FDA crackdown	Au	g 1	9 2	24	ceramics and porous silicates offered . N	Oct	14	42	Methylene chloride and perchloroethylene	Sant	0	41
Commonweal of Table In Anison prisoner Proceedings Proceedings Proceding Procedi						acrylic fibers plant in Manizales	July	8	33	Nopco Chemical Div. see under name	Sept	3	41
Part	centage of NTA in its Axion presoak									PVC pellet compounds at Delaware City,	Cons	0	20
Columber	product)	Jul	y 1	5 2	24					Disney, Walt, Production - GAF agreement	Sept	9	20
Colling A. Anthern - segle processors Serie 19 49 47 70 70 70 70 70 70 70	hit by FTC	Sep	pt 3	0	11	Calumet City, III., plant N	Oct	14	28	makes its film the "official film" for			
Contract Line No.	Collins & Aikman - wage increases	Sep	pt 1	6	24		Dec	2	48	Dodge Corp. – plastics in cars			
Section Maximum May Value 19 19 19 19 19 19 19 1	petroleum products from New Orleans					Courtaulds Ltd Britain's plant build-				Dome Petroleum - Canadian NGL for U.S.			
Public actions preferred as Div. with case company of publication and public and appeals and public and appeals and public and appeals and public and appeals and public actions of public and appeals and public actions an	area to Collins, Miss N	Jul	ly 2	2	9	up (table)				Dominion Foundries & Steel - coke ovens	Sept	9	17
struction of natural paperformers of June 2 (1997) 1.00	Interstate Gas Div. will start con-					Profit decline predicted N	Nov	25	32	for Hamilton, Ont., installation N			
Commission of breach of controls of board on a registration (Commission of breach of controls) and the control of board on a control	struction of natural gas pipeline and						July	22	39		Oct	7	19
Section Sect	Coltrier - polyester fiber capacity	Jul	ly	1	18		Aug	5	43	Brooks	Sept	16	36
and on cleam of branched contract. Source Asserts Communication Corp. — site of the companies find makent, but to device a shoreout, direct say. No. 12 1 23 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25		Ju	ly	8	33	System for removing mercury con-				FluoSolids process for Algerian plant . R			33
Contract Cut Language Series Se	Columbia Cellulose – suit against DuPont					and gases	Dec	16	59	sible for sales of Phrix Werke	Nov	25	32
Solution Columbia Color	and warranty, and negligence filed R	Se	ept	2	28	Creative Mailing Service - computer data			-	"Instant carpet sample" kit for booming			
Control for making as from coal	Columbia Coal Gasification Corp set						Dec	16	49	Three-wear contract with TMUA			
Comment Comm	up to develop a low-cost, direct sub-	I De	ec :	23	23	Creole Petroleum – LNG plant planned	Dec	10	43	Dow Chemical Cc Argentine partners	NOV	10	45
## Agreement with Argenines table 10 4 3 4 4 4 4 4 4 4 4	Columbia Gas Systems, Inc files			-		for VenezuelaN	Sept	2	81	considered for ethylene-based petro-			
Set 1 pa new Company to Demoke 3 Dec 2 page 1 page 2 page 1 page 1 page 2 page 1 page 1 page 2 p	application to import LNG from Algeria	J Se	ent :	30	21		Oct	14	38	Agreement with Argentine state	Aug	12	15
gus fron coal	Set up a new company to develop a	1 30	ipr .		21	Crest Co isocyanates plant for Jefferson				agencies N	Sept	9	56
Committee Comm	low-cost, direct substitute for natural			22	22	Chemical	Dec	16	9	Armstrong, Co. C. C. to manage production	Nov	25	22
Board gives find doddine to half July 8 10 10 10 10 10 10 10	Columbian Carbon — Texas Air Control	N D	ec ,	23	23	interest in Oxicros from Occidental				Australian officials deny that proposed	1404	20	32
Coult affect labor precure from conference of the 28h interest in Exagented in 60 c. In 23h interest in Exagented in 60 c. In 24h interest structure from conference of the 28h interest in Exagented in 60 c. In 25h interest structure from conference of the 28h interest in Exagented in 60 c. In 25h interest structure from conference of the 28h	Board gives final deadline to halt						Nov	11	38		D	2	E+
matsix meret in accuration 196 File Aug 25 18 matsix meret in accuration 196 File Aug 25 18 matsix metals in these world's 196 197	Columbian Rone - Hercules to spin off	N Ju	11A	8	10	could affect labor picture for nonferrous				Caustic soda prices			
Lummus de Lummus Co. 1921	the 34% interest it acquired in '65 F	A A	ug :	26	18	metals	Nov	25	14	Chile: Are U.S. companies facing nation-			
Spart 16 68 68 68 68 68 68 68	Combustion Engineering Inc. – C–E					first commercial synthetic wood-pulp				Chlorine prices			
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beautice processing plant at Anderson wille, Qu. Service, Quarter acreating drug, Italian Province of Control (Control Control	tract	N Se	ept	16	68	President Dahl pins '71 earnings to	May	25	14	Pamages awarded for hydrochloric acid	July	29	19
Ville, Ga. Sept Common						Cutter Labs. – fertility drug, Italian	1404	25	1.4	lost when barge sank in the Mississippi			
Sait. Closed by Proceding	ville, Ga	R N	lov	25	16	Pergonal, receives FDA approval for	leafer.	0	40		Sept	16	17
Barcelona plant increased Part Auty B Company Barcelona plant increased Part		N S	ent	9	41	Cyanenka – acrylic fiber capacity at	July	0		William Nummy: He's a reformed city			
Section Companies (Informacides) Section			op.			Barcelona plant increased R	July	8	33	boy who digs Midland	July	29	44
visition to politivity Ratigor, nonchorace cattle fattener has FDA approval Commonwealth Oil Herling Co. — Corco Recognization program July 1 15 Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Compendium Publishers — computer data services help companies find mare Computer force Marketing Services — computered tire recall services will be off- real time order-entry and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealth and account- ing packages Aug 12 23 Laby Commonwealt	pounds and chlorine chloride	D		2	26					for second unit at Terneuzen R	Oct	7	43
Figure, nonhormonic cattle fatterer has FDA approvise in the same of the component of the first component of the f	witamin for poultry	Ju				customers	Dec	16	49	Ethylene capacity at Sarnia, Ont., will			
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services help companies find markets, customers. Network exts, customers. Dec. 16 49 Comparer Communications Network methods present the firm offering resistance of the construction of	Reorganization program	Ju	uly	1	15						Sent	q	43
Lets, customers. Ope 16 49 Computer carminisations Network accounting packages Configuration Marketing Services — Computerized Marketing Serv										Future process units built at Midland,			
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order-entry and accounting packages — Aug 12 23 Cone Mills — wage increases — Congressive will be of- leved to industries — Service will be of- leved to industry firms offering a congress — Aug 12 23 Cone Mills — wage increases — Sept 16 24 Conoco Chemical Europe — oil-soluble autionate plant at Zeebrugge, Belgium — A Dec 2 17 Consolidated Fertilizers Ltd. — ICIANZ and Dow Australian officials deep their nitrogenous fertilizer operations will raise prices to farmers — No bc 2 51 Consolidated Mining & Smelting Co. of Consolidated proclimes — No Value Separation Aug 10 Consolidated Politic bild in the designation plant at its could are referred them to the plant at the contract of the and engage pretreatment with be installed on the designation plant at Freport, 1 Tex. — No Vectors a feed-grade bluere — No Percent Contract of the and engage pretreatment will be installed on the designation plant at Freport, 1 Tex. — No Vectors a feed-grade bluere — No Percent Contract or Contract	time-sharing firms offering real-time									chemical shipments next year	Dec	2	21
DOR Chemical — methanol plant in ferred to industry — Aug 19 25 Conserv — time-sharing firms offering real survival counts — Aug 12 23 Conserv — time-sharing firms offering real-time orderentry and accounts — Aug 12 23 Conserved — Aug 12 23 Conserved — Sept 16 24 Conserved —	order-entry and accounting packages	Α.	lug	12	23					Government contract to continue studying			
fered to industry — Aug 19 25 Halfa — R Sept 1 6 Del Nippon Toryo – paint price boosted July 29 26 7 Cornserv—time-barring firms offering real-time order-entry and account in grackages — Sept 16 24 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Corns Milis — wage increases — Aug 12 23 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Corns Milis — wage increases — Aug 12 23 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Corns Milis — wage increases — Aug 12 23 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Corns Milis — wage increases — Aug 12 23 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Corns Milis — wage increases — Aug 12 23 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price boosted July 29 26 26 Polyvorpylene catalysts battle: company price process for manufacture of the Polyvorpylene price of the Polyvo	Computerized Marketing Services — com- outerized tire recall service will be of-					DOR Chemical - methanol plant in				on the characteristics of particulate			
Dart Industries = acquisition of Lancy Dart Industries = acquisition of La	fered to industry	. A	Aug	19	25	Haifa R				emissions in auto exhausts N			
ing packages . Aug 12 23 Polypropylene catalysts battle; compared concording the proposed measurement of the propo	Comserv — time-sharing firms offering						July	29	26		Sept	16	58
Cone Mills – wage increases — Sept 1 6 24 Polypropylene catalysts battle; company (fig. judgment or 1.0 plays in the state of the consolidation of the conso	ing packages	. A	Aug	12	23	Labs	July	15	32	on the desalination plant at Freeport,			
sulforates plant at Zeebrugge, Belgium . R Aug 12 13 Rexene Polymers Div. — PP copolymer Consolidated Aluminum — shutdown of one of its four pottines consolidated Aluminum — shutdown of one of its four pottines	Cone Mills - wage increases ,		Sept	16	24		A		60	Tex			
Consolidated Fertilizers Ltd. — ICIANZ and Dow Australian officials deny that proposed merger of their nitrogenous fertilizer operations will raise prices to farmers curbacks Sept. 30 15	sulfonates plant at Zeebrugge, Belgium,	R A	Aug	12	13	Rexene Polymers Div. — PP copolymer	Aug	5	69	Korea Pacific Chemical see under name	Dec		
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DeBell & Richardson - merger agreement proposed merger of their introgenous fertilizer operations will raise prices to farmers	Consolidated Fertilizers Ltd. – ICIANZ		Dec	2	17	a liquid detergent	July	15	23	(table)	Sept	23	32
fertilizer operations will raise prices to farmers N Dec 2 51 Consolidated Gas Supply – natural gas rate cutabets Sept 30 15 Consolidated Mining & Smelting Co. of Canada – potash production quota N July 27 Consolidated Natural Gas – respoiles to NBE for export license to ship natural gas rate cutabets N Nov 25 Gas to U.S. and for permission to build associated pipelines N Nov 4 10 Consolidation Coal – formate process for removing subtru dioxide from stack gases will get pilot testing N Nov 25 Month of the state of the state of the waste water recycled oil and tax provisions R Sept 30 17 Contriental Cil Co. – agreement with Libya reagring posted prices of order oil and tax provisions R Sept 30 17 Contriental Cil Co. – agreement with Libya reagring posted prices of order oil and tax provisions R Sept 30 17 Contriental Cil Co. – agreement with Libya reagring posted prices of order oil and tax provisions R Sept 30 17 Contriental Cil Co. – agreement with Libya reagring posted prices of order oil and tax provisions R Contract to supply yellowcake to TVA, urranium mining and milling complex in southeast Tevas Sept 16 21 Conscilated precisions and the contrients are schainman and offer excutive fire to supply yellowcake to TVA, urranium mining and milling complex in southeast Tevas Sept 16 21 Contract to supply yellowcake to TVA, urranium mining and milling complex in southeast Tevas Sept 16 21 Contract to supply yellowcake to TVA, urranium mining and milling complex in southeast Tevas Sept 16 21 Contract to supply yellowcake to TVA, urranium mining and milling complex in southeast Tevas Sept 16 21 Contract to supply yellowcake to TVA, urranium mining and milling complex in terms of the water water recycled oil mining the recipion of continues as chairman and offer excutive free, heavy-duty detergent for Armounding and milling complex in terms of the water water process of the contract of the water water specification to the water water recycled in the U.S	and Dow Australian officials deny that					Debell & Richardson — merger agreement				Methylene chloride and perchloroethylene			
to farmers							Dec	2	44	Midland Div.'s new adsorption unit will	Sept	9	41
rate cutbacks Consolidated Mining & Smelting Co. of Canada – potash production quota . N Consolidated Mining & Smelting Co. of Canada – potash production quota . N Consolidated Matural Gas – reapplies to NeB for export Ilcense to ship natural gas to U.S. and for permission to build associated pipelines N Nov U 1 1 27 Libratoam, joint venture, to make acetal resin	to farmers	NE	Dec	2	51					recover phenol and brine from waste			00
Consolidated Mining & Smelting Co. of Canada – potash production quota N July 1 27 Ultrafoam, point venture, to make acetal resin N Nov La 10 Elayer Separator – Centrifuges report. Renneth Brooks N Nov La 11 27 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 28 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 28 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 28 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth Brooks Nov La 11 29 Elayer Separator – Centrifuges report. Renneth B	Consolidated Gas Supply - natural gas		Cont	30	16	manganese-rich nodules from the ocean	Cont	2	17		Nov	4	60
Cansal a postably production quota N July 1 27 Consolidated Natural Gas – reapplies to Cash (Indianal target Dec N Luly 2 27 NEB for export license to ship natural gas to U.S. and for permission to build associated pipelines N Nov 2 10 Lawel Separator — Centrifuges report. Sept 16 58 Pochaging productors prices N July 8 27 N Cet 7 37 DeLawel Separator — Centrifuges report. Sept 16 58 Pochaging products prices withdrawn N Sept 16 58 Pochaging products prices withdrawn N Sept 16 58 Pochaging products prices N July 8 27 N Cet 7 37 Delia Metals Research — copper-manipanese alloy that will dampen noise developed N Delia Plastic — merger with Asahi Chemical n R Continental Can — can-maker talks could affect labor picture for nontherous metals Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly olinit venture Nov 11 23 In the U.S. is treated by plants that could be converted to eliminate nearly all the water's phosphorus content Dec 23 16 In the U.S. is treated by plants that could be converted to eliminate nearly all the water's phosphorus content Dec 23 16 In the U.S. is treated by plants that could be converted to eliminate nearly all the water's phosphorus content to could be converted to eliminate nearly all the water's phosphorus content to could be converted to eliminate nearly all the water's phosphorus conte	Consolidated Mining & Smelting Co. of		эсри	30	15	Degussa – Antwerp complex completed	Nov			Lake Erie	Oct	21	25
NEB for export license to ship natural gas to U.S. and for permission to build associated pipelines N No V 4 10 Detawel Separator — Centrifuges report. Sept 16 54 Phenoxy herbicide prices N July 827 N Oct 7 37 Detita Metals Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research — copper-manques alloy that will dampen noise developed N Detawel Research Detawel Research Detawel Research Detawel Research Detawel Research Detawel Research Resea	Canada - potash production quota	N J	July	1	27			-		OCAW sights on Midland target			11
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affect labor picture for nonferrous metals Nov 25 14 Denora – electrolytic technology for Kashima Denkai Denora – electrolytic technology for Mashima Denora – electrolytic technology for Mashima Denora – electrolytic technology for Kashima Denoral Denora – electrolytic technology for Mashima Denoral D	Continental Can - can maker talks could	N	Nov	18	113	Cal	Nov	11	23				
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oil and tax provisions R Sept 30 17 president succeeding Berard Mellm, who contract price for U.K. refinery at Immingham to be boosted N Aug 19 97 toontineus as chairman and chief executive officer Continueus as chairman and chief executive Obstantial Continueus Continueus as chairman and chief executive Obstantial Continueus	Libya regarding posted prices of crude					DeSoto, Inc. — Nichols, George elected	July	0	34	used to supply roughage for cows N	July	29	33
Immingham to be boosted N Aug 19 97 tive officer Dec 23 14 ethers plant at Altona, Australia, to be Contract to supply yellowcake to TVA; uranium mining and milling complex in southeast Texus Sept 16 21 Oil companies are intensifying efforts to improve their public image Dec 2 19 Prosphate-free household detergent for Armour Dial N Dec 23 40 research to focus on interdisciplinary science July 29 40 research to focus on interdisciplinary science N Sept 2 75 Partner in Spain's first petroleum coke plant R Dec 16 42 Sear-DeSoto team up for detergent without phosphate and NTA plant 12:31 N Oct 21 31 reject contract proposal to end strike Sept 9 18 Pitt-Consol Div. – Process changes at refineries may hurt profitable spent R Dec 16 42 Desterreichische Stickstoffwerke — expansion plans R Oct 7 43 of Dow products Nov 11 21	oil and tax provisions	R	Sept	30	17	president succeeding Barnard Malm, who				PE prices	Sept	16	24
Contract to supply yellowcake to TVA; uranium mining and militing complex in southeast Texas		N	Aua	19	97	tive officer	Dec	23	14				
in southeast Texas Sept 16 21 Dial N Dec 23 40 research to focus on interdisciplinary Sept 29 40	Contract to supply yellowcake to TVA;					Phosphate-free, and presumably NTA-				built	Oct	21	26
Oil companies are intensifying efforts to improve their public image. Dec 2 19 Procephate-free household detergent for mulations Dec 2 19 Partner in Spain's first petroleum coke plant R Dec 16 42 Pitt-Consol Div. — Process changes at refineries may hurt profitable spent R Dec 16 42 Desterreichische Stickstoffwerke — expansion plans R Dec 16 42 Desterreichische Stickstoffwerke — expansion plans R Dec 17 43 5triking lettuce workers threaten boycott			Sept	16	21	free, heavy-duty detergent for Armour- Dial) Dec	23	40				
improve their public image	Oil companies are intensifying efforts to	0				Phosphate-free household detergent for-	-	-		science	July		
plant	Partner in Spain's first petroleum cole		Dec	2	19	Sears-DeSoto team up for deterant with-		15	23	Salicylic acid prices N	Sept	2	75
Pitt-Consol Div. — Process changes at Destretichische Stickstoffwerke — expan- refineries may hut profitable spent sion plans	plant	R	Dec	16	42	out phosphate and NTA Aug 12-31 . N		21	31	reject contract proposal to end strike .	Sept	9	18
Caustic to cresylic reprocessing Dec 23 33 Dettra Flag Co. – synthetic fibers, dyes, USDA warns "clean up your processing	Pitt-Consol Div. — Process changes at					Desterreichische Stickstoffwerke – expan-	a Oce	7	43	Striking lettuce workers threaten boycott	Nov	11	21
VC monomer plant in Europe or U.K. polymer coatings and plastics are among of 2,4,5,-T"	caustic to cresylic reprocessing	. ,	Dec	23	33	Dettra Flag Co. — synthetic fibers, dyes,	COL	,		USDA warns "clean up your processing			
	VC monomer plant in Europe or U.K.					polymer coatings and plastics are among				of 2,4,5,-1" N	Oct	7	14

March Company Compan													
Percentage of American Services (1997) Percentage of American Services (19							Διια	5	27		Sept	30	14
March Marc	mine waters to drinking water	N Oc	ct 2	28	35	Petrochemical refinery considered	Aug	12	8	data services help companies find mar-	D	10	40
Proceedings Process	of chemical tags	N Se	ept	2	17	Polyester film: selective price cuts N		12	12	ECOPETROL - synthetic detergent plant	Dec	16	49
Decomposite (Forces - September 2019) Composite (Forces - Septembe	Dow Chemical (Australia) Ltd. – Australia investments may be merged	an N No	ov 1	18	38		July	29	27	R Aug 12-16	Sept	30	28
Section (Particulary Company C	Dow Chemical Europe - naphtha contract					electroplating rinse water N				plant	July	8	33
London Hardwood London Har	plant at Terneuzen, Holland	N D	ec	9	20	Sales and earnings N			17	duction study	Oct	21	31
Decompose Principal of Section Decompose Decom	Dow Chemical-Latin America — raising prices of exported herbicides	N N	ov	18 1	100	Scrubbing system to reduce odors at Linden, N.J., complex to be installed. N	Sept	23	12	Elcor Chemical — Rock House sulfur — from-gypsum plant progress N	Nov	4	63
Description Continues Co	Dow Chemical of Sweden - styrene buta-					Seeking injunction to stop Eastman "in-				Plant to close: company asks ASE to sus-			
Security of the property of	Sweden N Sept 2-81	N D	lec	9	20	ing polyester fibers for carpet and	_			Considering three options in effort to	1404	10	42
Section Sect	pounds, emulsions, fluids prices N Oct					Shapiro, Irving, vice-president: He found	Dec	9	14	problem-plagued sulfur venture N	Dec	9	41
Size interinational formations and sections of the study. Aug. 5 27 12 13 14 15 15 15 15 15 15 15	7-37, N Oct 14-28	N D				law easier than child's play				Eldib Engineering – nonionic secondary alco-	Διια		21
Se. Indication de Silicone i have sold a filter print and autoritation of the control of the con	Silicones plant in Seneffe-Manage, Bel-					Suit filed against Matador Chemical for	Sept	9	4.	Study speculates that detergent legislation			
1. South Section 2016 1. 1. 1. 1. 1. 1. 1.	Soc. Industrielle des Silicones' share soli	d	wg	5			July	22	10	Elf-Aquitaine — Aquitaine Organico see	Nov	18	100
Proceedings of the content of the	to Rhone-Poulenc	RA	lug	5	27	Swiss bond issue funds will be used to ex-				under name	Sent	a	57
The part of	materials	. J	uly	8	36	Technology pact with Viskoza-Loznica				Methanol unit near Manheim, W.			-
Same and commons	unrest as workers protest the trial of					Thermal system for duplicating video				Total and E-E combine almost all their	Nov	25	32
Denote Charles Decompany	16 Basque separatists	N D				tape developed N Toluene diisocyanate prices N				Petrochemical operations into Aquitaine Organico	Sept	16	18
Dun & Buddelbert — comparer data services Dun Ford Called — Field and Province of the Provinc	Dravo Corp Aeropack packaged waste					Trade secret suit against professional				Elizabeth Arden Sales – American Cyana-			
Decks Pubble Co., Ltd. Fermil and Decks Pubble Co., Ltd. Fermil and Open Part of Hermory. E. 8 Co. Inc. Sept. 2 37 10 10 10 10 10 10 10 1	Dun & Bradstreet - computer data service	ces	,			pher for spying: court rules for Du				Eli Lilly's arrangement of acquisition . R	Oct	14	22
Duesting and Professor P	help companies find markets, customers Dunlop Rubber Co., Ltd. — Pirelli and	s . C	Dec	16	49	Pont	July	29	12	AC will sue for court enforcement of an agreement	Oct	28	14
Secret and mylerin merits printers N Aug 12 2 1 1 1 1 1 1 1	Dunlop will "consolidate interests"		Dec	16	16	firms: "It's up to you", Meyer Lurie	Sept	2	37	Elizabethtown Gas Co noncatalytic con-			
The challenger Character Surveys Dec. 2 14 14 15 15 16 16 16 16 16 16	acetal and nylon resins prices	N A	Aug	12	21	layoffs				gas	July	8	30
To challed in Fig. 1 or a sharp of the contract and warrant, and I strain of contract and warrant, and I strain of Card and Warrant of Card	Anti-leak Zerex antifreeze attacked by FTC: DP denies charges	. N E	Dec	2	14	Canadian profits up	Aug	12	16				
The fact white add production. Note the company of the product of	To challenge FTC on advertising char-	ge C		9	11	of breach of contract and warranty, and	Cont	2	28	Gas charges El Paso "unfairly" gives			
Mortifold analytical continuous international to be purchased N Ag 2 6 7 7 7 7 7 7 7 7 7	TNT and nitric acid production	N A	Aug	12	21	Employee layoff; polyester fiber plant for							
The process of process	line manufactured at Monrovia Calif					Morrisburg, Ont. postponed N Maitland Ont. plant layoffs				industrial customers in the Pacific	Cont	2	25
Solit Jahren in Symbre Solit Jahren in Sym	to be purchased	N A	Aug	12	6	Polyester fiber plant postponed N	July	22		Files application to import LNG from			
Solid part Sol	prices	. N S	Sept	30	21	Dutch State Mines - acquisition of Allied's	IAOA						21 15
Copport entering electroplating chemical processing of electroplating chemical for processing copports with Cliffs Copport w		5	Sept	9	17	50% share in Synres N	Sept	23	39	Emery Industries - acquisition of 51% of			
Cap per wenture with Cliffs Coper will No. No. 12 28 35 Summarization with a cliff No. No. 13 28 Summarization with a cliff No. No. No. 13 28 Summarization with a cliff No.	Copper-bearing electroplating chemical					new installation will boost the company's				planned R	July	8	20
## South Institution Sept 2 20 20 20 20 20 20 20	Copper venture with Cliffs Copper will					Gas plant at Geleen							
Cortain material for bathrooms Sept 2 37	try bacteria approach	, N (Oct	28	35	Joint methanol unit at Delfzijl N	Nov	18	73		Doc	2	52
Definit polyacetals prime for big future Churt S tables	entry	1				onstream	Oct	21	32	Engelhard Minerals & Chemicals - Blake	Dec	2	32
Chart 5 tables			sept	2	79					A.G. discusses chemical outlook and problems for '71	Oct	21	17
PVC plant capacity will be boosted to personal processing to computer programs for piping design July 15 75 July 15 July 15 75 July 15	(chart & tables)		Aug	5	63	Holland, under construction N				Buys 48.4% of Soc. de la Cornouaille			19
Ing water, economically, developed R Dec 16 18 Staminisation see under name 2 Dec 17 37 December 19 Dec 19 18 Staminisation see under name 2 Dec 17 37 December 19 Dec 19 18 December 19 Dec 19 18 December 19 Dec	Holland	. N	Sept	23	39	PVC plant capacity will be boosted to				Engineering-Science Inc report charts	Sept	23	19
Direct saving from using computer program for paging delign in paging deli	Device to turn brackish water into drin ing water, economically, developed	nk-	Dec	16	18	help supply SCC	July	22		routes to better control of petrochemical pollution at lower cost	Oct	7	49
Drug us is fast becoming another coatly problem. Processing appears on Lurgeal system of processing acopper on Lurgeal system of the Lurgeal system of processing acopper on Lurgeal system of processing acopper on Lurgeal system of the Lur	Direct savings from using computer pro	0-	lists.			Sulfur melting capacity upped N	Oct	7	37	Correction — letter		2	5
problem Du Print, Herra IV goes to Washington. Nov 25 16 Du Print, Herra IV goes to Washington. Nov 25 40 Du Print, Herra IV goes to Washington. Nov 25 40 Du Print, Herra IV goes to Washington. Nov 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 25 40 Du Print, Herra IV goes to Washington. No 26 50 Print IV goes to Washington. No 27 50 Print IV goes to Washington. No 28 50 Print IV goes to Washington. No 29 50 Print IV goes to Washington. No 20 50 Print IV goes to Was	Drug use is fast becoming another cost	tly				lurgical system of processing copper ore				Houston, Tex	Oct	14	19
Economist C. Reader sees brighter economic Crankers for 7 N Nov 25 9 Elvas to treat carvax terms July 15 67 Elvas to treat carvax terms July 15 67 Elvas to treat carvax terms July 15 67 Employee layoff at Synance fiber plant N Nov 13 14 Enter National Plant Nov 13 14 Enter National Education Nov 13 14 Enter National Plant Information Nov 13 14 Enter National Education Nov 13 14 Enter National Education Nov 13 14 Enter National Education Nov 13 14 Enter National Plant Information Nov 13 14 Ente	problem					Potash production guota N				Humble's Linden, N.J. blast alters supply	Dec	16	17
Elvax to treat canvas tents. Employee layoff at Despower, N.J. plant. Employee layoff at Despower, N.J. plant. Endoyee layoff at Despower, N.J. plant. Endoyee layoff at Despower, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a proper layoff at Despoyer, N.J. plant. Evan for a pro	Economist C, Reeder sees brighter eco	-				Dr. Dvorkovitz & Associates - computer				N.J.'s Dept of Environmental Protection			
plant Employee layoff at Spruance fiber plant N European facilities to formulate preclosus electronic circularly the first formulate formulation and preclosus electronic formulate formulate preclosus electronic formulate formulate formulate preclosus electronic formulate	Elvax to treat canvas tents	. IN				markets, customers	Dec	16	49	Phthalic plant at Baton Rouge, La., under	Aug	12	6
Employee layoff at Spruance fiber plant N Nov 13 14 Europan facilities to formulately precious metal compositions for thick-film micro- oct 7 42 Fiber maker lay off thousands as their market weakers Formulately deplant at Healing Springs, N.C. N Aug 517 Nov 25 9 ESB Inc. — agreement with Flinktote to produce and market a new line of modular wall systems Homesewing market gets push from fiber makers Sept 2 74 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 74 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 74 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 74 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 74 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 75 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 75 Exide power systems div. will discontinue operations in Chicago Produce and market a new line of modular wall systems Sept 2 75 Exide power systems div. will discontinue operations in Chicago Produce of the system of the system will system Sept 2 75 Exide power systems div. will discontinue operations in Chicago Product of the system of the system of the system will system Sept 2 75 Exidence of the system of the system will system Sept 2 75 Exidence of the system will system Sept 2 75 Exidence of the system of the system will system Sept 2 75 Exidence of the system of the system will system Sept 2 75 Exidence of the system will system Sept 2 75 Exidence of the system of the system will system Sept 2 75 Exidence of the system of the system will system Sept 2 75			Dec	16	17	Dynamic Metals Corp. – foamed aluminum N	July	29	34	construction (chart)	July	1	29
meial compositions for thick-film micro-electronic circuitry with Pierwakes as yoff thousands as their market weekens. Oct 7 42 Fiber makes lay off thousands as their market weekens. Oct 21 22 Fiber makes lay off thousands as their market weekens. No. N Aug 5-17 N. No. Oz 25 N. C. N Aug 5-17 N. No. Oz 25 No. N. No. Sept 25 No. C. N Aug 5-17 N. No. Oz 25 No. C. N Aug 5-17 N. No. Oz 25 No. C. N Aug 5-17 N. No. Oz 25 No. C. N Aug 5-17 N. No. Oz 25 No. C. N Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. N. Aug 5-17 N. No. Oz 25 No. C. No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 25 No. Oz 24 No. C. No. Oz 25 No. Oz 24 N	Employee layoff at Spruance fiber plan	nt N	Nov		14					in Colombia boost	July	8	33
Fiber makers lay off thousands as their market wakers. Oct. 21. 22 Formaldeflyde plant at Healing Springs. Row 25 Sighbothown, NJ, sodium hittite capacity expansion completed. Fiber makers with mining and the product of the produce and market a new line of modular wall systems. For produce and market a new line of modular wall systems. Sept. 2 46 Formaldeflyde plant at Healing Springs. Row 25 Sept. 2 47 Formaldeflyde plant at Healing Springs. Row 25 Sept. 2 48 Formaldeflyde plant at Healing Springs. Row 25 Sept. 2 49 Laber peace, key to can spaping Italy's long slump on the produce and market a new line of modular wall systems. For plant pl	metal compositions for thick-film mi	icro-								rick, Ireland R	Aug	5	27
market weakers . Oct 21 22 Formulatively plant at Healing Springs. N. C. N Aug 517 N. C. N Aug 517 N. C. N Aug 517 N. N. Oz 5 Possibility of the Marker of Springs. N. C. N Aug 517 N. N. Sodium nitrite capacity of the Marker of Springs. N. C. N Aug 517 Possibility of the Marker of Springs. N. C. N Aug 517 Possibility of the Marker of Springs. N. C. N Aug 517 Possibility of the Marker of Springs. N. C. N Aug 517 Possibility of the Marker of Springs. N. C. N Aug 518 Possibility of the Marker of Springs. N. C. N Aug 518 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of Springs. N. C. N Aug 519 Possibility of the Marker of	Fiber makers lay off thousands as the	ir	Oct	7	42					Ente Nazionale Idrocarburi – Italy plans to triple output by '80	July	29	26
Sibbstown, N.J. sodium intirite capacity expansion in N. Dev 25 9 ESB Inc agreement with Flintkote to produce and market a new line of modular years and market an expansion in the series of the	market weakens		Oct	21.	22					Labor peace: key to snapping Italy's			39
expansion or Moreovery and service segments of the segments of	N.C. N Aug 5-17	N	Nov	25	9	500 1				Natural gas: Lower prices may spur Euro-			
Home-seking market gets push from fiber makers ————————————————————————————————————	expansion	ty R	Oct	7	19	produce and market a new line of modular				Sales for first half of '70; natural gas		15	26
Hydrogen peroxide expansion completed, new addition will start 1	Home-sewing market gets push from		Sept	2	24	wall systems	Dec	9	14	plans	Aug	19	31
recent riots Naydown plant not affected by recent riots Naydown plant not remove yearlies on the riots of the plant for the small industrial cohemical Dept. — Computer time-sharing between the plan for the small industrial cohemical Dept. — Computer time-sharing between the plan for the small industrial cohemical Dept. — Computer time-sharing helps on-line order-entry system Note 14-41	Hydrogen peroxide expansion complet					operations in Chicago R	July	15	32	salt plant planned	July	22	38
Restone system to remove cyanide ions from plating wastes — Dec 16 54	Ireland's Maydown plant not affected	by		-		N Oct 14-41 C	Nov	18	120	search on solid-wastes pyrolysis	Sept	9	15
From plating wastes Dec 16 54 Zinc oxide prices July 22 15 Earth Resources Co. Placimiento copper mine, New Mexico, work began The strain of the plating and sale of such paints and help communities remove lead paint from old buildings Sept 2 24 Seath Resources Co. Placimiento copper mine, New Mexico, work began R. July 8 20 Example Chemical Pensacola, Fla., fertilizer complex expansion July 15	recent riots	N	July	15	73	Eagle-Picher Industries - Ohio Rubber	Sent	30	17	Enzan Mining Co There must be better			
Lead paint poisoning prompts a look into three bills to regulate the labeling and sale of such paints and help communities remove lead paint from old buildings. Sept 2 24 Licenses color meter sales rights to Nov 18 Sept 16 25 Neotec Corp	from plating wastes		Dec		54	Zinc oxide prices N	Sept	23	22	point			5
three bills to regulate the labeling and sale of such paints and help communities remove lead paint from old buildings	Lead paint poisoning prompts a look	into	July	22	15	mine, New Mexico, work begun R	July	8	20		Aug	12	13
ties remove teal paint from obtaindings. Sept 2 24 Licenses color meter sales rights to Note Corp. Note Corp. Sept 2 24 Licenses color meter sales rights to Note Corp. Note Corp. Sept 2 25 Licenses color meter sales rights to Note Corp. Sept 3 25 Licenses color meter sales rights to Sept 2 37 Licenses color meter sales rights to Note Corp. Note Corp. Sept 4 25 Licenses color meter sales rights to Sept 2 37 Licenses color meter sales rights to Sept 2 37 Licenses color meter sales rights to Sept 2 37 Licenses color meter sales rights to Sept 2 37 Major foreign projects in Mest Germany Major foreign projects in West Germany Major foreign position of full ownership of Fibras Easo and Amoniaco Espansion						Eastalco Aluminum — aluminum reduction				tilizer complex expansion	July	15	26
Licenses color meter sales rights to Nove 18 Sept 16 25 Sept 2 79	ties remove lead paint from old buil	ld-	Cont	2	24	up N Uct 28-13	Dec	2	17	unit	Dec	16	38
Neotec Corp R Sept 16 25 Eastman Chemical Products — Coatings Chemicals and Industrial Chemicals divisions formed Luxembourg's Mylar polyester film plant expansion N N N Major foreign projects in West Germany (table) Sept 23 32 McCoy says '70 per-share earnings will probably be in \$6.60-6.76 range Nov 25 16 Methicine hydroxy analog for poultry and cattle Dec 2 30 Military buying of CPI products is dropping N Nov 18 49 Magara Falis, N.Y. plant strike Oct 14 23 Musper forming but sees merits in the plan for the small industrial deventions based on house the plan for the small industrial deventions without using low-suffur fuel, also yield suffuric acid July 15 Long themical Products Industry Div. — vitamins for animal feed Dec 2 Dec 2 Dec 2 Du Pont seeking injunction to stop Eastman "infringing" upon patent used in processing polyester fibers carepts and apparel R Dec 9 May 19 May 19 Major fremitian based on house the right decisions Long the plan for the small industrial account N Aug 19 Major fremitian based on house the right decisions Long the plan for the small industrial demonrated in products industry Div. — vitamins for animal feed Dec 2 Dec 2 Dec 2 More than the plan for which way to a winner? Long the plan for the small industrial demonrated materials under Long the plan for the small industrial demonrated in products industry Div. — vitamins for animal feed Dec 2 Dec 2 Dec 2 Dec 2 N Aug 19 N Aug 19 N Aug 19 N Aug 19	Licenses color meter sales rights to					ments may be mergedN	Nov	18	38				
Luxembourg's Mylar polyester film plant expansion	Neotec Corp	R				Eastman Chemical Products — Coatings				tions without using low-sulfur fuel, also	linke	15	69
Major foreign projects in West Germany (table)	Luxembourg's Mylar polyester film p	lant				isions formed N	July	1	10	Esso Chemical - acquisition of full owner-	July	13	00
(table) Sept 23 32 Du Port seeking injunction to stop East-man "infringing" upon patent used in probably be in \$6,60-6.75 range Nov 25 16 Portous the standard property and cattle Dec 2 30 Single-component floor polish stripper dromping Nov 18 49 Single-component floor polish stripper dromping Nov 19 40 Single-component floor polish stripper dromping	Major foreign projects in West Germa	any	July			Distillation Products Industry Div. — vita- mins for animal feed	Dec	2	26	panol	Dec	23	31
probably be in \$6.60-6.75 range . No	McCov save '70 per share earnings w		Sept	23	32	Du Pont seeking injunction to stop East-				Ammonia plant in Rotterdam	July		15 52
Military buying of CPI products is difficult in the plan for the small industrial account. Military buying of CPI products is Move 18 49 Nader, Ralph, eyes studies of Du Pont, Justice Dept. and FTC July 1 14 NJL's Dept. of Environmental Protection charges air pollution N Nauger Falls, NY. plant strike Oct 14 23 Not suitable to contract out all advertising but sees merits in the plan for the small industrial account July 29 16 Organic Chemical Dept Computer time-sharing helps on-line orderentity system formulation based on phenyl diethano- Lamine Dec 2 3 16 Manitary Dec 2 3 16 Manitary Dec 3 16 Manitar	probably be in \$6.60-6.75 range .		Nov	25	16	processing polyester fibers for carpets				Forms a new company, Essochem			
Military buying of CPI products is difficult in the plan for the small industrial account. Military buying of CPI products is Move 18 49 Nader, Ralph, eyes studies of Du Pont, Justice Dept. and FTC July 1 14 NJL's Dept. of Environmental Protection charges air pollution N Nauger Falls, NY. plant strike Oct 14 23 Not suitable to contract out all advertising but sees merits in the plan for the small industrial account July 29 16 Organic Chemical Dept Computer time-sharing helps on-line orderentity system formulation based on phenyl diethano- Lamine Dec 2 3 16 Manitary Dec 2 3 16 Manitary Dec 3 16 Manitar	Methionine hydroxy analog for poult and cattle	try	Dec	2	30	and apparel	Dec	9	14	Europe	Dec.	16	42
Nader, Rajph, eyes studies of Du Port. Justice Dept. and FTC N_J/s Dept. of Environmental Protection Charges air pollution N Aug 12 6 Easton, James D. Inc. — aluminum arrow components Not suitable to contract out all advertising but sees merits in the plan for the small industrial account July 29 16 Organic Chemical Dept. — Computer time- sharing helps on-line orderentry system Sept. 21 Sept. 21 Sept. 22 11 Sept. 32 11 Sept. 33 11 Sept. 42 29 15 Eastman Kodak — Zornow, Gerald, presi- dent: Althete-salesman makes the right docisions. July 1 48 Easton, James D. Inc. — aluminum arrow components Cot. 28 38 Cot. 29 9 Easton Research & Engineering Co. — liquid membrane technique for difficult mix- ture separations — ACS meeting Sept. 2 Nickel-copper alloy catalyst to reduce 90% Nickel-copper alloy catalyst to reduc	Military buying of CPI products is	N	Nov	18	40	formulation based on phenyl diethano-	Doc	22	16	Guanos y Fertilizantes N	Aug	19	31
Justice Dept. and FTC	Nader, Ralph, eyes studies of Du Por	nt,				Eastman Kodak - Zornow, Gerald, presi-	Dec	23	10	bought by IMC N	July	8	31
charges air pollution N Aug 12 6 Easton, James D. Inc. — aluminum arrow Ct 28 38 ing Y. plant strike Oct 14 23 components Oct 28 38 ing Ct 28 38	Justice Dept. and FTC		July				July	1	48	Esso Eastern Chemical — Japan Butyl Co.			
Not suitable to contract out all advertising but sees merits in the plan for the small industrial account Uses merits in the plan for the small industrial account Uses proper time Sharing helps on-line orderentity system Discontine orderentity system Laton Laboratories – L-dopa: which wey to a winner? Cot 21 99 membrane technique for difficult mix- ture separations — ACS meeting Sept 23 Nickel-copper alloy catalyst to reduce 90% Nickel-copper alloy catalyst to reduce 90% autos' nitrogen oxide emissions dis-	charges air pollution	N				Easton, James D. Inc aluminum arrow				Esso Overseas Finance N.V stock offer-	Care	2	28
small industrial account	Not suitable to contract out all adve	rtising		,-4		Eaton Laboratories - L-dopa: which way				Esso Research & Engineering Co. — liquid	Johr	2	20
Organic Chemical Dept. – Computer time-bags: 'four man-made materials under Nickel-copper alloy catalyst to reduce 90% sharing helps on-line orderentiny system on Sept. 23 11 autos' nitrogen oxide emissions dis-	small industrial account		July	29	16	Eaton, Yale & Towne, Inc air safety	Oct	21	99	ture separations - ACS meeting		23	46
	Organic Chemical Dept Computer	r time-				bags: four man-made materials under	Some	22	11	Nickel-copper alloy catalyst to reduce 909	6		
speed product distribution Aug 12 22 coolings corp. of America — Ecolo-G: covered	speed product distribution		Aug	12	22	Ecology Corp. of America - Ecolo-G:	- John	20		covered	Oct	21	88

				Observations (construct of the body							
Esso Standard Fertilizer & Agricultural Chemical Co. — fertilizer plant may be				Phosphorus furnace at Flushing, Nether- lands	Aug	12	16	Foster Wheeler Corp. — contract for major oil refining complex on Oahu, Hawaii R	July	15	32
sold to IMC N	July	8	31	Sales and earnings: first half of '70 N	Aug	19	31	Fitzgibbon, Jack, at AIChE meeting dis-			
Esso Standard Oil – Gewerkschaft Brigitta see under name				Eight months of '70 N Profit squeeze tightens	Sept	30	24	cusses new look in chemical processing	Nov	11	41
Essochem Europe – formed to coordinate				Sales in 70 N	Oct	21	42 73	Isobutane-cracking furnaces — letters Freeman Chemical — Chempol 30-1579 and	July	29	5
the Esso group's operations R	Dec	16	42	Sammet, Rolf: He knows how to get to the top	000			30-1677 - flame-retardant urethane in-	0-4	20	27
Ethyl Corp Ethyl Toyo see under name Foamed aluminum can be sawed, milled,				Worldwide plastics growth slows but com-	Oct	14	60	sulation competition N Freeport Queensland Nickel – ore royalties	Oct	28	27
turned or foamed into diverse shapes N	July	29	34	pany planning major expansions	Dec	9	39	will be paid to Queensland, Australia . R	Nov	25	16
Lead altkyls prices	July	22	15	Farmland Industries - Dow's PE pellets to replace the hay normally used to				Freeport Sulphur Corp. – diversification in- to copper, nickel and asbestos is under			
15-66 N	Sept	9	41		July	29	33	way	Oct	28	21
Magnolia, Ark., plant to produce brom- inated hydrocarbon intermediates R	Aug	12	13	Phosphoric acid unit adjacent to Bartow.	hate.	16	20	Wilson, Forbes, president: He's been a rock collector all his life	July	8	48
NTA: company may become producer				Federal Mogul Corp. — Superalloy P/M	July	15	32	Friedrich Uhde — engineering for Swedish			
N July 22-9, Aug 19-26 N VisQueen Div. — polyolefin plastic	Oct	14	13	parts can be forged	July	22	29	alkaline chloride plant	Aug	12	16 42
films plant at Manchester, la., planned N	Oct	28	13	Feltex New Zealand, Ltd Goodrich-Good- year battle over subsidiary ownerships				Fries & Fries - acquired by Mallinckrodt R	July	15	32
Ethyl Toyo - lead additives plant at Yama-				grows	July	15	27	Frost & Sullivan – process equipment con- trol business report	Sept	23	19
guchi startup may be delayed if efforts to change shipping rules are unsuccessful.	July	29	18	Ferrostall — Malaysian titanium dioxide plant study	July	1	31	Fuel Desulphurization, Inc heavy-fuel	Sept	23	19
Ethylox - Aquitaine Organico see under				Fertica - Esso's interest will be bought				desulfurization plant in South Portland,		-	
name Evans Products – reciprocity crackdown	Nov	18	42	by Guanos y Fertilizantes N Fertilizantes Fosfatados Mexicanos –	Aug	19	31	Me., awaits approval N July 29-11 N Furukawa Chemical Industries — poly-	Aug	5	18
				Austral Pacific Fertilizers buys liquid				propylene plant at Kawasaki R	July	29	26
				phosphoric acid	Aug	19	27	Furukawa Group — will buy Goodrich's 20% interest in Geon	Sept	23	41
				giants says G. Agnelli	Dec	9	13	East manual m seem 11111111111	oop.	20	
				Fibras Esso - Esso Chemical acquires full	D	22	24				
				ownership N Firestone Hispania - Bilbao area faces	Dec	23	31				
FMC Corp American Viscose Div				labor unrest as workers protest the trial	0	00					
AFL-CIO says textile workers losing jobs because of increased imports of				of 16 Basque separatists N Firestone Tire & Rubber – acquisition of	Dec	23	31				
rayon staple fiber N	Nov	18	37	Radiation Dynamics' shares R	Oct	28	21	0.50			
American Viscose Div. – Gregg, J.N. does not see employment cutbacks				"All-position" tire developed R British court rules in favor of General	Oct	7	19	GAF Corp. – agreement makes its film the "official film" for Disney mar-			
as meaningful trend	Oct	21	22	Tire in suit charging Firestone with				ket	Sept	23	17
American Viscose Div strike at Newark,				patent infringement on oil-extended	hulse	15	80	N.J.'s Dept. of Environmental Pro- tection charges air pollution N	Aug	12	6
Del., plant settled	July	8	19	rubber N Chairman R. Firestone's annual year-end	July	15	00	Nylon-4 addendum – letter	Oct	21	14
catedN	Oct.	21	88	forecast	Dec	23	10	(letter)	Oct	28	5
Detergent phosphates have not been proved to be a key factor in autro-				Contract agreement with URW expected soon	July	1	16	Gamma Processing – commerical gamma operation	July	29	18
phication says company	July	15	24	Denies FTC charges against ads	Oct	28	19	Gas del Estado - Dow considers Argentine			
Ecolo-G controversy	Sept	30 25	14 5	FTC will issue complaint against Big Five tire makers requiring an end to				partners for ethylene-based petro- chemical project in Bahia Blanca N	Aug	12	15
Flame-retardant vinyl plasticizer	MOA	25	5	leasing arrangements with bus compa-				Gas Natural Co Barcelona's regasification			
	Oct	28	28	nies N Flotation tires	Nov	11	14 36	plant opened	July	1	31
Hormone pest controllers, material struc- turally similar to juvenile hormone	Aug	19	98	Kenya tire plant under way N Aug 5-80 R	Sept	2	87	sidering bringing Soviet natural gas to			
Petro-Tex see under name	0-4	20	40	Liquid-molded, cordless tire being	Nov	11	20	the Stuttgart area	July	15 14	26 37
Rumanian joint venture plans N Soda ash producers switch to trona to	Oct	28	43	Phosphonitrilic polymers will be the sub-	1404		20	Paisley organic pigments near Glasgow,		144	3/
counter rising costs	Dec	9	32	ject of a development and marketing	C	0		Scotland expansion	July	22	38
Sodium tripolyphosphate prices N FS Services Inc. – purchases Monsanto's	Sept	23	22	effort	Sept	2	89	stitutes being testedN	Aug	12	33
"agricultural centers" in III, and Iowa,				dotte R	Aug	26	18	Geigy Chemical) Ciba merger proposal			
and ammonia terminals in lowa and Neb	Nov	18	99	First Mississippi – Donaldsonville, La. plants include urea and ammonia complex				gets U.S. Justice okay R July 15-32, Antitrust division spells out require-	July	22	18
Fabricaciones Militares – aromatics project	1404	10	33		July	22	9	ments for merger	July	29	15
goes ahead N	July	8	32	Metchem Corp. see under name				Merger approved	Oct	28	43
Dow considers Argentine partners for ethylene-based petrochemical project				Fish Engineering – contract for Shell Oil's "largest sulfur recovery plant in the				divisions	Nov	4	18
in Bahia Blanca N	Aug	12	15	U.S." N Fisons, Ltd. – Agrochemicals and Industrial	Oct	14	14	General American Transportation — N.J.'s Dept. of Environmental Protection			
Fabricated Steel Products – acquired by Standard Alliance Industries R	Aug	19	27	Chemicals divisions to be merged R	Dec	2	52	charges air pollution N	Aug	12	6
Farbenfabriken Bayer AG – acquires				Fitchburg Paper Co develops no-copy				General Aromatics – acquired by Stepan			
Allied's 50% interest in Iranian nylon producer Sherkate Sahami Aliaf N	ledge	29	28	paper for use with special ink to prevent the reproduction of newsletters and other				Chemical	Nov	25	16
Bids for International Coating Mat-		25	20	documents for limited distribution	Nov	18	110	Plastics and Pan American Products			
erialsN	July	29	28	Flintkote – agreement with ESB to produce and market a new line of modular wall				planned	Nov	11	13 13
Withdraws its bid	Sept	2	87	systems	Dec	9	14	General Crushed Stone - merger with			
German expansion thrust: firms plan				Fluor Canada - natural gas liquids extrac-	0:-	20	21	Koppers N General Dynamics – nuclear undersea	Aug	26	11
worldwide expansion; major projects (tables)	Sept	23	29	tion plant for Imperial Oil R Foote Mineral Co. – Chairman Bliss sees	Oct	28	21	tankers for shipping Alaskan oil			
Chlorine plant at Dormagen	Nov	4	56	steady growth in metals business and				studied	Sept	2	23
Formaldehyde plant at Uerdingen under construction	Sept	2	85	Lithium operations	Nov Sept	18	22	Undersea generating station feasibility study	July	22	34
Sales and earnings first half of '70 N	Sept	2	81	Rhodesia's chrome ore problem may be				General Electric Co. — high-intensity dis-			
Profit squeeze tightens	Oct	7	42 37	eased	July	1	10	charge lamp that closely duplicates sun- light developed N	Oct	14	41
17% drop in the first nine months of				pany blasts federal court decision ordering				light developed N Hydraulic fluid prices N	Dec	23	40
'70N	Nov	11	39	it to sell off its spark-plug plant and one				Lexan: Chaparral 2J racing car will use Lexan	July	22	16
Shaefer, Eugen B. chemical representative in Spain kidnapped by Basque separa-				of its two battery plants, and to give up its much-publicized Autolite tradename N	July	15	19	Lexan project expansion at Mt. Vernon,			
tists	Dec	9	20	'71 model equipped with a dual-bed cata-				Ind N New techniques for process control	Nov	4	9
oligomer plant	Dec	16	39	lytic converter N Plastics in cars	Dec	16 26	60 12	UOP's Process Div. will distribute	Oct	21	00
Titanium-containing minerals exploration				Strike deadline is Sept. 14	Aug	5	27	silicone antifoams manufactured by	Mari	**	40
in Sierra Leone	Sept	2 22	85 24	Causes only 2.9% drop in sales Settlements help ease U.S. auto	Oct	14	21	GE	IAOA	18	46
VA: National Distillers antitrust suit	outy		27	suppliers' problems but the out-				developed as "purest substance on		00	200
against Bayer, Hoechst and Celanese re-	Aug	12	12	look is still bleak in Canada	Dec	16	16	earth"N General Foods – reciprocity crackdown	Oct	28 18	35 42
lating to VA and acetaldehyde R VAM. Bayer charges National Distillers	Aug	12	13	posals of the "Big Three"	Sept	9	16	General Mills Chemicals – fermentation			-
with patent infringement	July	15	27	Foremost-McKesson Co. – develops a high- protein whey concentrate and solves a				plant at Melle to produce xanthan gum	July	8	33
Brasileira de Sinteticos, nylon and poly-				pollution problem at the same time N	Nov	25	27	Nutrition hearings are under way;	July		
ester fibers expansion program R	Nov	11	23	Morison, William, president: Happiness is				cereal makers defend products	Sept	30	16
Acquisition of 26% interest in Stollack, N "Big Three" are spearheading the West	Dec	23	31	weekends at his own ranch Formica — Cincinnati, O., plastic lami-	Sept	16	78	General Motors — Canadian industries slowed by GM strike	Oct	21	23
German expansion thrust: firms plan				nates plant to be phased out N Dec 9-7. R	Dec	16	18	Catalytic mufflers to be installed on some			
worldwide expansion; major projects	Sept	23	29	Forth Chemicals – Britain's plant buildup (table)	Nov	4	52	'73 cars, on all '75 models N Fisher Body Div. – four man-made	Sept	23	49
Bond issue to finance expansion N	Oct	14	35	Fortified Polymers Pty license agree-	. 404	4	-	materials under consideration for use in		-	**
Gendorf VC plant will switch to oxy-				ment for manufacture and sale of glass fortified (reinforced) thermo-plastic ma-				air safety bags	Sept	23 26	11
chlorination process employing only ethylene	Oct	7	48	terials in Australia and N. Zealand R	Dec	2	22	Strike: Deadline is Sept. 14	Aug	5	27
German Remedies Taiwan see under name				Fosfatbolaget — alkaline chloride plant		12	16	Hurting suppliers and chemical pro- ducers Sept 23-16,	Sept	30	17
Increases holdings in Hans Schwarzkopf from 25 to 48% N	Aug	5	80	in Stenengsund expansion R Name changed to Kemanord AB R	Nov	11	23	Causes a 57% decline in sales	Oct	14	21
Joint subsidiary with Perstorp in Goetebor	9			Fosforico Espanol - phosphoric acid and				Third-quarter '70 net loss N	Nov	4	9
to produce plastic dispersions N National Distillers antitrust suit against	July	1	31	ammonium phosphate capacity to be upped	Aug	26	28	Paralyzes antipollution and safety pro- ject works	Nov	4	16
Bayer, Hoechst and Celanese relating				Foster Grant — Ashland Oil acquisition				Talks go critical, raise concern among			
to VA and acetaldehyde R '69 profits (table)	Aug	12 14	13 37	offer awaits approval N Negotiations called off	Nov Dec	11 23	14 15	Chemical makers	Nov	11	20
on brough Impant	001	1-4	0.	regulations cando on		-		Paulo suino son stable)			

Settlements help ease U.S. auto				0
suppliers' problems, but the outlook is still bleak in Canada	Dec	16	16	
Unions denounce the initial contract proposals of the "Big Three"	Sept	9	16	Ha G
General Tire & Rubber — British court rules in favor of GT in suit charging Firestone				He
with patent infringement on oil-extended	July	15	80	B
rubber N Chemical/Plastics Div.: James Hostettler vice-president and general manager —		-	-	No
Salesman-coach now manages the		00	40	Oci
business team . FTC will issue complaint against Big Five	July	22	48	Off
tire makers requiring an end to leasing arrangement with bus companies N	Nov	11	14	ta Wa
Liquid-molded tire program is under- way	Nov	11	20	Gran
Way Vinyl upholstery products prices N Generics Corp. — Ly-Bee-Tone new horse	July	29	24	Grea
tonic Georgia-Pacific — acquisition of Meadow	Sept	2	28	Ari
River Lumber awaits approval R Building growth spurs formaldehyde	Dec	2	22	Grea
expansions	Sept	16	60	Uta
at Columbus, O. and Crosset, Ark.		05		bor
N Aug 5-17, N Mercury pollution row Aug 5-26,	Nov Aug	25 19	9 23	Grea
Monsanto Enviro-Chem's Brink mist eliminators can recover mercury from				hur Grim
the hydrogen streams of mercury cell caustic chlorine plants N	Dec	9	50	Grow
German Remedies Taiwan - drugmaking	Dec	2	52	sidi Grow
joint venture		-	-	fore
Delaware City complex	Nov	4 2	18 79	poi
Methacrylate for gas stations signs Nuclear Fuel Services see under name	Sept			Guan
Gevaert-Agfa – licenses to Olin N Gevaert Photo Producten – Gavaert-	Oct	7	13	alui Sala
Agfa see under name Gewerkschaft Brigitta – sulfur plant				Ele
planned for Grossenkneten N Gewerkschaft Elwerath – Norddeutsche	July	22	24	Kre
Erdgas see under name Gilmore Steel Corp. — Oregon Steel Mills				Wil
division - direct-reduction plant started		0	20	Gulf
Glidden Chemical — lead paint poisoning	Sept	2	22	ami
prompts a look into three bills to re- gulate the labeling and sale of such				Gulf
paints and help communities remove lead	Sept	2	24	Gulf
paint from old buildings Goodrich, B.F. Chemical — Cone curometer, one-of-a-kind testing machine can				Inc
evaluate all types of rubber and sponge N Demonstration plant at Pedricktown,	Aug	5	70	Ura
N.J., to prove out a chemical-bio-				in r Gulf
chemical technique for treating PVC wastes N Headquarters move to Akron, O.; sales	July	1	39	mir
Headquarters move to Akron, O.; sales expansion	Oct	14	20	Gulf
Terminating participation in Japanese Geon	Sept	23	41	priv Bol
Goodrich, B.F. Tire Co. – contract agreement with URW signed	July	1	16	fo
FTC will issue complaint against Big Five tire makers requiring an end to				Cut
leasing arrangements with bus com-		11	14	Gu
Goodyear-Goodrich battle over sub-	Nov			o b
sidiary ownership grows July 8-17, Molded tire development	July	15 11	27 20	Gu
Goodyear Tire & Rubber - Congo tire plant	Sept	2	87	HE
Contract agreement with URW signed	July	1	16	Wil
FTC will issue complaint against Big Five	0017		10	
tire makers requiring an end to leasing arrangement with bus companies N	Nov	11	14	
\$5.25 billion will be spent for tires this year	Sept	9	10	
Goodrich-Goodyear battle over sub- sidiary ownerships grows July 8-17, .	July	15	27	
Ireland: second thoughts about ex-	-			
pansion plans at Graigavon N Japan joint venture to produce	July	15	73	Hade
polyisoprene rubber in a plant near Tokyo Sept 23-41,	Dec	2	52	hol Halo
Kovac study: Rubber experts crystal- ball the tire designs of the future	Aug	12	11	gra
Nippon Polyisoprene Co. see under name				dra Mit
Oil spills answer: huge flexible bags to tow away oil pumped from disabled				lie
tankers	Sept	23	19	Halli
Passenger car tire with all-steel-wire cord developed	Oct	14	20	Ham
Polyisoprene synthetic rubber plant at Le Havre, France, planned N	Oct	28	14	Harr Pa.
Texas pollution suits: Harris County	Nov	11	27	Han
water pollution suit settled; will install water treatment equipment at				in
synthetic rubber plant in Houston N Tires: Permafoam tire filled with polyiso-	July	22	10	Han
prene foam; colored bike tires called	lect :		20	Di Haw
Gordon Terminal Service – storage and	July	8	36	ret Haw
docking facilities at Bayonne, N.J. for PPG	Aug	26	18	CI
Grace, W.R. & Co. — common shares		23	19	Hei
upped to 50 million				pr
away (chart & tables)	Sept	2	92	to
Hampshire Chemical div. — producer of NTA	July	22	9	in Ri

			1
Doubling NTA capacity at Chocolate			
Bayou, Tex.; expanding plant at Nashua, N.H. Hatco Group acquires Herman's Sporting	Aug	19	26
Goods Cos	July July	15 15	32 65
Howards & Sons subsidiary sold to BASF R July 1-18, N NTA plant planned in Ontario, Canada	July	1	31 26
Nonasbestos sprayed fireproofer Occidental now owns Latin American	Aug Sept	16	62
vinyl holdings	July	29	11
its specialty chemicals business; es- tablishes Chemed Corp N Walnut Grove Div. – line for cattle	Dec	2	14
and swine	Dec	2	30
Great Lakes Chemical — El Dorado.	Dec	16	24
Forms Sobrom to produce brominated	Nov	4	16
soil furnigants	Dec	16	42
bonanza get new support Production pace quickens at Great	Oct	21	24
Salt Lake	Dec	9	45
Grimm, W.T. & Co. – midyear merger	July	15	28
	July	15	19
sidiary N Grow Chemical Ecological Corp. –	Oct	28	14
formed to develop and market pro- ducts to combat "oil pollution and lead			
poisoning" N Guanos y Fertilizantes de Mexico S.A. – alumina and mixed fertilizers from	Oct	28	14
alunite rock will be produced at Salamanca plant	July	29	31
Electrolysis chlorine-caustic plant in	July	8	33
Krebs & Cie to supply phosphorus insecticides plant at Salamanca R Will buy Esso Chemical's interest in	Sept	9	20
Fertica	Aug	19	31
ammonia transportation system con- tracts for final portion awarded Gulf Design & Engineering — Farmland Industries' phosphoric acid unit	July	15	25
construction supervised R	July	15	32
Gulf Energy & Environmental Systems, Inc. – formed	July	8	20
Uranium mining complex will be built in northern Saskatchewan N Aug 26-11, Gulf Oil Canada – Canada' Uranium	Sept	9	16
mining complex will be built in northern Saskatchewan N Aug 26-11, Gulf Oil Corp. — Allied-Gulf Nuclear	Sept	9	16
Services to build "world's largest" private nuclear plant Bolivia will pay more than \$100 million for properties seized almost a year	Aug	26	16
ago	Sept	16	18
oil into higher-quality products R Gulf Oil Chemicals, new division, to	Oct	7	19
operate the firm's worldwide chemical business; Z.D. Bonner will head it R Guif Energy & Environmental Systems,	Sept	2	28
new subsidiary formed	July	8	20
HDPE resin prices	Nov Aug July	19	24 27 26
Hadco Corp. — phosphate-free house- hold detergent formulations	July	15	23
and keypunching that is required for the drafting program	July	15	75
line plant uses Halcon process N Hallmark — the gift package: glittering	July	22	39
market for chemicals	Dec	16	27
Hammermill Paper — strike ends at Erie.	Sept	9	22 18
Pa., plant Hankook Caprolactam — caprolactam unit Hankuk Titanium — titanium dioxide plant	Dec	16	38
in Inchon, Korea	July Oct	29 7	26 19
Haveg Industries - Glascote Products Div. will discontinue operations R Hawaiian Independent Refinery Inc oil	Sept	30	17
refining complex on Oahu	July	15	32
Clinton, la., plant upped N Vulcan-CPI-Allied technology will	Sept	30	11
be used N Heidrick & Struggles — Delphic study	Nov	18	114
predictions N Henkel International – licenses technology to produce a floor cleaning and polish- ing emulsion called Tuklar to the	Nov	25	21
Russians	July	15	73

Hercoform Co. — move into modulars:			
company previews two completely furnished models of a projected condominium townhouse complex	Dec	16	15
Hercules, Inc. – air safety bags: four man-made materials under con-	Sept	*23	11
Brown, Werner, new president and chief executive officer, steering Hercules			
to billion mark (charts & table) Contracts to design "the nation's most advanced" solid-waste reclamation	July	15	37
	Sept	9	9
Formaldehyde plant at Wilmington, N.C. planned N Aug 5-17, Georgia wants timetable for "adequate treatment and control or elimination"	Nov	25	9
of toxaphene discharges from Bruns- wick, Ga., plant into Terry Greek Gibbstown, N.J., phenol unit and acetone	Aug	12	11
Gibbstown, N.J., phenol unit and acetone plant to close N Graphite fibers plant at Bacchus, Utah,	Dec	16	45
Graphite fibers plant at Bacchus, Utah, not at Bowling Green, Md N	July	8	39
Hercoform see under name Infinetics, Inc. see under name Military buying of CPI products is			
dropping	Nov	18	49
PP films prices N PP resin, Pro-fax PC-072 modified,	Sept	2	75
Prices	Sept	2	75
explosion investigated N Sales and earnings, first-half '70 Solid-wastes disposal plant for Delaware	Sept	9	10 19
to be designed	July	8	25
To spin off the 34% interest in Columbian Rope it acquired in '65 R Toxaphene's inclusion in a government	Aug	26	18
list of "problem" chemicals pro- tested	Nov	18	114
USDA warns "clean up your processing of 2,4,5-T". N	Oct	7	14
Wilmington, Del., ghetto tells chemical	Oct	28	5
Herman's Sporting Goods Companies -	Sept	2	37
Hess Oil & Chemical — Corpus Christi	July	15	32
plant damaged by Hurricane Celia Hettrick Mfg. Co. – polyester tents Hines Laboratories – analytical labs	Aug July	12 15	12 57
are suppling mass screening ser- vices to help identify habitual drug			
users among potential employees	Dec	2	41
aided drafting of isometric piping) - system	July	15	75
see under name Hoechst Polymer - new name for Stauffer			
Hoechst Polymer	Dec	23	14
Pharmaceutical plant at Mem Martins:	Nov	18	74
expanding plastics dispersion R Hoechst Uhde – low bidders for Army	Nov	18	74
nitric acid plants N Hoeganaes Corp. – hot-forged P/M parts	July	1	9
Hoffman-LaRoche - chemical fume exhaust	July	22	29
ducts concealed in stainless steel en- closures at new lab in Nutley, N.J.	Dec	9	13
Roche Labs — L-dopa: which way to a winner?	Oct	21	99
Holosonics Corp. — purchase of exclusive	July	8	31
license to acoustical holography patents	Nov	18	113
exclusive license to acoustical holo- graphy patents	Nov	18	113
graphy patents N Home-Spray Co. — lead paint poisoning prompts a look into three bills to regulate the labeling and sale of such paints and			
help communities remove lead paint from old buildings	Sept	2	24
Honda Motor Corp. — all-terrain vehicles propelled by their low-pressure flotation tires			00
Div. — Computer program being used	July	8	36
to interpret aerial photos of forests; may find other jobs in ecological studies	Cont	16	68
Hooker Chemical Corp. — Cros agrees to buy Hooker Chemical's 50% interest in	Sept	10	00
Oxicros	Nov	11	38
County, N.Y. to caustic-chlorine plant at Niagara Falls N	July	8	40
at Niagara Falls	Sept	23	22
means more profit Horizons Research — phosphonitrilic polymers will be the subject of a develop-	Oct	21	23
ment and marketing effort N Houston Natural Gas — Liquid Carbonic see under name	Sept	2	89
Howard, Needles, Tammen and	Oct	21	24
Bergendoff — Lake Erie bridge study Howards & Sons — acquired by German BASF R July 1-18, N	Oct		24
Howe-Baker Engineers - designer for non-	July	1 8	31
catalytic continuous-process unit	Nov	11	23
Aluminum reduction plant in Frederick County, Md. starts upN	Oct	28	13
Intalco aluminum plant production cut R	Oct	7	19

Humble Oil & Refining – Alaskan oil ways to ship North Slope oil studied	Sept	2	23	last into '70 N Mini-computer looking for proc-		30	11	isocyanates plant at Port Neches, Tex	Dec	16	9
Bayonne, N.J., plant's wax and asphalt		1	10	ess industries work N	Nov	4	63	Jersey Central Power & Light Co Oyster			
production will be phased out N Converse County, Wyo., open-pit	July			System 370, new king-size com- puter introduced N	July	8	10	Creek plant costs show nuclear power not so cheap	Aug	5	70
uranium mine Grass to reseed vital tundra ground on	Sept	16	21	International Chemical & Nuclear Corp. – acquisition of Winley-				Jersey Nuclear Co. — Richland, Wash., plant to fabricate nuclear fuel ele-			
Alaska's North Slope N	Nov	18	38	Morris	Dec	9	14	ments	Sept	16	21
Linden, N.J. blast alters supply lines N.J.'s Dept. of Environmental Pro-	Dec	16	17	L-Dopa: which way to a winner? Approval to market L-Dopa in	Oct	21	99	Co. – farming venture partnership with			
tection charges air pollution N	Aug	12	6	Mexico	Nov	11	23	American Cyanamid	Nov	4	18
Partner in research project to find out feasibility of bringing natural gas from				Squibb will evaluate and ultimately may market new series of nucleic acids-				processing plant near Lake Myvath.			
Alaska's North Slope and northern				related chemical compounds R	Aug	26	18	Iceland	July	8	33
Canada to central Canada and U.S. Midwest	July	22	23	International Coating Materials — Bayer bids	July	29	28	U.S. construction expenditures this year – economic forecast N	Aug	12	13
San Francisco pollution damage suit				Bayer withdraws bid: Petrofina only				Johns-Manville Irrigation Corp formed			
claims that pollutants caused the deaths of livestock	Sept	9	9	bidder	Sept	2	87	to market custom-engineered turf and agricultural irrigation systems R	Dec	2	22
Humphreys & Glasgow - contract for	Dec	2	51	Corp. – Finley, Emil president: This Englishman found the going easier				Johnson & Johnson — Micrin: mouth- wash makers change formulas in			
Algerian methanol plant N Methanol unit near Manheim, W.				in U.S.	Aug		110	wake of FDA crackdown	Aug	19	24
Germany	Nov	25	32	Correction – letter	Sept	9	5	Jones Chemical, Inc. – identical chlorine bids may develop into a federal			
and contracts projects to independent				disease vectors for pest control	Aug	19	99	case	July	8	9
service groups on a fee basis, other companies are considering the idea	July	29	16	Earnings for fiscal year R Aug 12-13, . N K-2 shaft shut for "routine" repairs	Oct	14	13	Jordan Chemicals, Ltd. – Emery Industries will purchase 51% of the			
companies are considering the less 1.1.1.				and maintenance N	Sept	9	41	common shares	July	8	20
				Manilan Esso's fertilizer plant pur- chase considered N	July	8	31	Joyce Western Construction — contract for ammonia pipeline	July	15	25
				Mercury suits	Aug	5	26	Tenneco contract for natural gas			
				MSG prices cut to meet foreign com- petition	July	15	28	pipeline system expansion N	July	22	9
				Potash production quotas N		1	27				
ITT Rayonier - Jesup, Ga., chemical				International Nickel Co. of Canada — Cop- per Cliff, Ont., smelter complex stack							
cellulose complex expansion N Idemitsu Kosan – continuous process for	Dec	9	7	will help disperse sulfur dioxide	Sept Dec	9	20				
polycarbonate	Aug	5	43	Levack West Mine to be developed R Nickel supply and demand are return-	Dec	9	14				
Turkish petrochemical complex N Imco – PVC bottles prices N	Oct	14	35 21	ing to balance "somewhat earlier than we expected" says Wingate	Dec	23	16	Kaiser Aluminum & Chemical			
Imperial Chemical Industries - acquires				Sulfuric acid plant at Copper Cliffs,		23	10	Corp aluminum potline at Mead,			
U.K. subsidiary of Ireco Chemicals R Acquisition of 25% interest in Nippon	July	22	38	Ont N International Nutronics Inc. – isotopic	July	8	27	Wash., plant will be temporarily closed R Oct 14-22, Dec 2-17, R	Dec	16	18
Polyurethane Industry N	July	29	28	gamma radiation unit near Los Altos,				Aluminum smelter in Congo R	Sept	2	87
Britain's plant buildup (table)	Nov	4 25	52 31	Calif., is doing a bustling business International Paper — Southern Kraft	July	29	18	Baton Rouge, La., plant increases spherical active alumina capacity N	July	8	9
Callard, Eric will be new chairman, R	Nov	18	46	Div labor talks with 3 unions re-				Cleveland: Refrigerant gas makers		9	17
ISOPEDAC system Major foreign projects in West Germany	July	15	75	sumed in Jackson, Miss	July	15	18 19	are hauled up on conspiracy charges Coke calcining plant at Gramercy,	Sept	3	17
(table)	Sept	23	32	Contract agreement N Vermont is suing New York and IP over				La., complex planned R New Caledonian Nickel Co. see	Oct	21	26
New production site in continental Europe sought N	Sept	23	39	alleged pollution laxity	Dec	16	18	under name			
'69 profits (table)	Oct	14	37	from Dow	Sept	9	43	Ready, T., Jr. estimates U.S. aluminum consumption in '70 will be down			
earnings in '69 N	Sept	30	24	formed by merger with American Enka				from last year	Dec	2	17
Pharmaceuticals processing and packaging plant is operating at Caponago,				and Organon, Inc. R Aug 19-27, N Company created by three-way merger	Sept	2	81	Kaiser Le Nickel – phasing out R Kaiser-Pechiney-Alcan – Argentine	July	15	32
Itlav R	Nov	18	74	International Sulphur (Canada) - claims	Oct	,	18	smelter bid	Sept	9	20
PE plant at Fos, near Marseilles planned N Nov 11-39, N	Dec	9	20	a new world record for biggest sulfur shipment	Cont	2	28	Kalium – potash production quota N Kanegafuchi Chemical – Kaneka-	July	1	27
PE and PP film output boost N		1	31	International Synthetic Rubber —	Зерт	2	20	Belgium see under name			
Polymerization catalyst rights bought from Teijin	July	8	39	synthetic foam rubber agglomeration process for ANIC's Ravenna plant R	Oct	14	38	Styrene terpolymer resin plant in Geel, Belgium, plannedN	July	29	28
Process injection-molds stiff plastic over				International Systems & Controls	Oct	14	30	Kaneka-Belgium – PVC modifiers plant		16	39
foamed core; auto market is first target	Sept	23	53	Corp. — Pittsburgh pilot plant will test new way to get sulfur out of				in Geel			
Sales down as a result of British dock strikes	July	29	27	coal	July	15	79	Barcelona, Spain	Oct	14	38
Sales and earnings N Sept 16-18	Dec	9	12	Interocean Oil – acquisition by Pan Ocean Oil planned	July	1	18	operation begun at Mitsubishi's			
"Self-destruct" plastic container: com- pany agrees to develop and evaluate				Interplastic — Commerical Resins Div.		7	19	ethylene center in Kashima R Kashima Melamine – melamine plant	July	8	34
the chemicalsN	July	29	34	resin formulation expansions R Interprovincial Pipe Line System — Cochin	Oct	,	19	at Kashima	Oct	21	32
Terephthalic acid plant to be built at Wilton, Teesside	Sent	2	85	Pipe lines gets approval to build line to carry NGL from a plant at Empress,				Kashima Oil — heavy-oil desulfurization unit uses UOP's Isomax process R	Dec	16	40
\$24 million less to be spent on ex-				Alta., to the Kerrobert, Sask., terminal .	Sept	9	17	Kast & Ehinger — acquired by BASF N	July	1	31
pansion in the U.K. N \$96 million loan negotiated N	Dec	16 16	37 37	Intracolor Corp. — Ciba-Geigy merger causing reshuffling of some				Kawecki Berylco Industries – light- weight beryllium sheet for use in the			
U.K. tax scheme turns industry off Widnes Container Loading Unit — Con-	Nov	18	74	divisions	Nov	4	18	mast of the Intrepid N Silicon prices N	Sept	30	31 27
tainers cut shipping costs for small				Ireco Chemicals – ICI acquires U.K. subsidiary	July	22	38	Kay Fries Chemical - Stony Point plant	July	,	21
Ioads ICI of Australia & New Zealand — Australia	Dec	23	43	Ishihara Sangyo — titanium oxide			34	indicted of polluting Hudson River's tributary	Nov	4	18
investments may be merged N		18	38	plant in Yokkaichi Titanium oxide quotes raised	July	8 29	26	Kayaku Noury - organic peroxides to			
Australian officals deny that proposed merger with Dow fertilizer operations				Israel Petrochemical Industries – PE				be produced with Noury technology . R Kellogg, M.W. Co. – acquires 1/3 interest	July	8	34
will raise prices to farmers N Sales and profits N July 8-32, R	Dec	2	51	capacity expansion and polystyrene unit	Sept	2	87	in STEC from Ugine Kuhlman N	July	22	33
	Dec	16	40	Itoh, C. & Co Colombia's synthetic detergent plant for Ecopetrol				Ammonia plants in East Germany will employ Kellogg technology			
division polypropylene plant at Sarnia		00	20	R Aug 12-16,	Sept	30	28	Sept 16-23,	Sept	30	28
Natural gas liquids extraction plant at		26	28					complex in Korea (map)	Dec	16	38
Judy Creek, Alta	Oct	28	21					Export license to provide basic technology for two fertilizer ammonia plants in			
Gujaras will use CE-Lummus techno-								East Germany awarded N	Sept	9	56
logy to produce polymer-grade ethylene	Oce	14	38					Russia to lauch big petrochemical proj- ect with U.S. technology	Dec	16	15
Industrialimport — urea unit at	oct	1.5	30					Kelsey-Hayes - lays off about 20% of its			
Tirgu Mares will use Stamicarbon process	Nov	18	74	Japan Butyl Co butyl rubber capacity				work force	Oct	28	20
Industrias Chimica del Ticino - Marano,	1404	10	7-4	at Kawasaki boost	R Dec	16	39	Fosfatbolaget	Nov	11	23
Italy plant will produce methylamines and rubber chemicals	Nov	18	74	dustry - acrylics boosted	Dec		52	Kennecott Copper — Asarco will buy four Illinois coal mines from Peabody			
Infinetics, Inc Friskem, an electro-				Turkish petrochemical complex	N Oct	14	35	Coal N	Aug	5	17
magnetic screening device to foil air- craft hijackers	Sept	23	49	stock for terephthalic acid plant				Kern County Land Co. – see New Kern County Land Co.			
Inland Steel - coke ovens: a major				at Mizushima	R July	29	26	Kerr-McGee Corp. – contract for a 14-			
source of coal-tar chemicals for years to come (charts)	Sept	2	21	using Amoco technology	R July	29	26	year supply of UF6 for two nuclear units	Sept	16	21
Intalco - aluminum reduction plant		-		Japan Gasoline Co. – computerized de-		t 30	28	Copper discovery near Patagonia, Ariz		30	17
production cut	Oct	1	19	Japan Synthetic Rubber — Japan Butyl	John			Ketjen - sulfur remelting plant to be		30	
Goodyear battle over subsidiary owner-	July	15	27	Co. see under name Japan grants permission for Goodyear's				reactivated	Oct	7	37
ships grows	July	15	21	joint venture in polyisoprene	0 0		FC	sharing helps on-line order-entry			
electromagnetic subsurface survey system to probe for oil deposits will be tested . R	July	15	32	Sept 23-41,	R Dec	2	52	system speed product distribution Kilborn Engineering — nitric acid pulping	Aug	12	22
International Business Machines – Grove	30.7			its participation in rubber venture	Sep B July		41 26	process may get tryout in Oklahoma , N	July	15	79
tells NICB the pause in the invest-				Rubber capacities boost	R July N Oct		35	Kimberly-Clark – Anderson, Calif., pulp mill sued in river pollution	Sept	2	26
ment boom of the past decade will				Jefferson Chemical – polymeric				K-C charges slander and fibel	Oct	21	26

Kinetics Corp Freon touted for use in pollution-free auto engines N	Aug	26	33	Elanco Div. — animal feed additives producer	Dec	2	26	planned Melle-Bezons — fermentation plant to pro-	Oct	21	32
Kisilidjan h.f. – diatomite mine and processing plant near Lake Myvatn,				Kafocin (cephaloglycin dihydrate) okayed for sale in U.S N	July	15	19	duce xanthan gum	July	8	33
Iceland	July	8	33	Methadone, new pharmaceutical form, for	July	15	19	ducer	Dec	2	26
plant for Czechoslovakia N	Aug	5	80	heroin-addiction treatment centers in the U.S	July	15	19	Aspirin: Merck tests new pain killer, flu- fenisal, aiming at a "super-aspirin"	July	15	51
	July	22	33	70 N	July	15	19	- letter Merger talks with National Starch called	Sept	30	5
Kohjin – biaxially oriented nylon film and biaxially oriented PP film at Fuji				Limburgse Vinyl — VCM for Soc, Chimique des Charbonnages	July			offN	Aug	12	6
plant	Aug	12	16	Liquichimica Augusta LAB plant under		22	38	MSG imports cause of U.S. producers quitting the business	July	15	28
turn out about 200,000 hairpieces/				construction Liquid Carbonic – liquid carbon dioxide	Aug	12	25	Nasal sprays: plans to ban 15 such combi- nation drugs from the consumer mar-			2.0
month	Dec	2	20	plant at Ft. Dodge, la	Dec	16	18	ket	Sept	2	28
Foundries & Steel's Hamilton, Ont.,	Sept	9	10	ment (chart)	Nov	18	95	under development	Oct	21	83
Merger with General Crushed Stone N	Aug	26	11	agreement for manufacture and sales of				Quinine company taking steps to pre- vent illegal use	Oct	14	21
National Steel's order for new battery of 87 coke ovens	Nov	11	13	glass fortified (reinforced) thermo-plastic materials in Australia and N. Zealand , R	Dec	2	22	Research employees laid off Merck, E. AG – sets up E M Laboratories	Dec	2	22
Phthalic addition at Chicago, III.	July	1	29	Litton Industries - Navy contract to build 30 destroyers won N	July	1	19	at Elmsford, N.Y	Dec	2	22
Phthalic anhydride prices N Strike at Petrolia, Pa. plant settled	Aug	26	27	Lonza, A.G. — niacin unit could bring back				Laboratory that will do research on pollu-	Oct	7	19
Noppers, Heinrich GmbH - Boost for	July	8	19	the soft prices of the '60s Louisiana Towing Co. – court rules com-	Nov	25	25	Process changes at refineries may hurt	Sept	16	25
coal – letter Korea Oil – Naphtha-cracking complex	Sept	16	5	pany must pay damages and salvage expenses for barge sunk in the Missis-				profitable spent caustic to creedle	Dec	23	33
at Ulsan (map)	Dec	16 29	38 26	sippi River in June '66 N Lucas, Joseph, Ltd. – Norton Co. licenses	Sept	16	17	reprocessing	Dec	20	33
Korea Pacific Chemical — Dow-Chungju Fertilizer joint venture in PE and VCM		20	20	high-density silicon nitride N	Dec	23	23	manganese-rich nodules from the ocean			
(map)	Dec	16	38	Lummus Co. — C-E Lummus: Dutch sub- sidiary will design and engineer PVC				floor	Sept	2	17
Petrochemical complex at Ulsan, S. Korea	July	8	33	plant at Pernis for BICM R C-E Lummus! engineering for Taiwan	July	22	38	plants	July	22	24
Korea Petrochemical – PP joint venture	Dec	16	38	VCM plant	July	29	26	ore royalties will be paid to Queensland,			
butadiene rubber plant	Dec	16	38	based on BASF process for Finland . R C-E Lummus: Russia to launch big	Sept	16	25	Methchem Corp. – methanol plant	Nov	25	16
South Portland, Me., acquired by				petrochemical project with U.S. tech-				planned	July	22	9
Stauffer		8	20	C-E Lummus, technology to produce	Dec	16	15	rubber plant at Le Havre, France	0	20	14
electrolysis chlorine-caustic plant R Contract to supply phosphorus in-	July	8	33	polymer-grade ethylene to be used at Indian Petrochemical plant R	Oct	14	38	Michigan Wisconsin Pipe Line - partner in	OCT	28	14
secticides plant at Salamanca R Nitric acid plant for Czechoslovakia N	Sept	9	20	Contract for Japanese styrene monomer				research project to find out feasibility of bringing natural gas from Alaska's			
Sulfuric acid plant for Greece R	Aug	5	80 43	Lummus Co. Canada - contract for Bruce	July	8	34	North Slope and northern Canada to central Canada and U.S. Midwest N	July	22	23
Kureha Chemical Industry Co. – crude- cracking unit to make ethylene and				Heavy-Water Plant Lummus Nederland – contractor for Dow	July	1	40	Midrex – direct-reduction plant	Sept	2	22
acetylene starts up	Nov	11	43	ethylene plant	Oct	7	43	acquisition N	Nov	4	9
will engineer phthalic anhydride plant based on BASF process	C	10	25	Joins with Homer Knost to establish	Aug	5	80	Miles Labs. — Compton says this year's profits will be well below projections . R	Dec	23	18
Subsidiary to produce hydrogen per-	sept	16	25	Lurgi-Knost - formed by Lurgi and Homer	July	22	33	Milligan, J.C. – acquired by Doric Corp. R Millmaster Onyx Corp. – acquisition of	Oct	7	19
oxide and organic peroxide in Finland	Aug	12	16	Knost to provide total engineering-construc- tion package N	huly	22	33	Radioptics' Polymer Div	Nov	4	18
Kyowa Hakko Kogyo – synthetic pro- tein plant planned		16	40		July	22	55	Heltzer to chairman of the board and			
								chief executive officer, Raymond Her- zog to president	Aug	19	27
								"Pull-string" bow	Dec	16	30
								tents	July Sept	15 23	57 49
								Mitsubishi Chemical Industries - ammonia	Sept	23	43
LMC Petrophomical - alkulhanzana plant				M&T Chemicals — antimony oxide prices N	Nov	18	99	plant uses coke-oven gas as fuel, and naphtha as feedstock	July	8	34
LMG Petrochemical – alkylbenzene plant near Manila N	Nov	18	73	Attains full ownership of Billiton-M&T Chemische Industries		16	25	Cabot denied Japanese patent rights on its oil-furnace carbon black process . N	Aug	19	97
La Citrique Belge — SPC: New contender for detergent markets emerging in				Maestranza y Astilleros Delta – fishing boats made of polyester reinforced glass	Sept	10	25	Chiba rejects plans for refinery and petrochemical complexes	Oct	7	43
Europe N L'Air Liquide – '69 profits (table)	Nov Oct	25 14	27 37	fiber under construction	Nov	4	16	Ethylene plant plans cut in half N Isobutylene oligomer plant at Mizushima R	Dec	16	51
Oxygen unit to supply steel company				Magma Power Co. will sell steam to Pacific Gas & Electric	July	29	16	Japan to push prefabs: series of			
Arbed	Sept	2	85	Magna Corp. – stainless steel cooler for sulfuric acid plants developed in con-				agricultural communities envisioned Petrochemical complex in Singapore feasi-	Nov	18	74
plant	Sept Sept	2 2	87 87	junction with CIL N Maine Clean Fuels, Inc. – heavy-fuel desul-	Oct	14	41	bility report	Sept Sept	23	39
Lancy Laboratories - acquired by Dart	July	15	32	furization plant will be built at South				Technology for Ciquine Petroquimica plant at Salvador, Brazil		5	79
Lanvin-Charles of the Ritz - merger with	Nov	4		Portland, Me N Makhteshim Ltd. – polystyrene unit at	July	29	11	Toluene sold to Standard Oil of Calif. N	Aug Sept	16	58
Squibb Beech-Nut possible R Laporte Industries – sales and earnings	Dec	9	18 12	Malaysia Electric Co. — Japanese agree-	Dec	16	42	Mitsubishi Heavy Industries – butadiene plant in Russia	Sept	30	28
Subsidiary to produce hydrogen peroxide and organic peroxides in Finalnd R	Aug	12	16	ment to build PVC plant, using Sumitomo process N	Aug	5	80	Will build plant for Ciquine Petroquimica at Salvador, Brazil N		5	79
Leesona Corp Leesona Moos Labs.: fuel cell that operates on human blood, and				Mallinckrodt Chemical Works — acquisition				Mitsubishi Petrochemical – cyclododecane for nylon-12; new process developed . N		2	89
might power an artificial heart, demon-	July	8	40	of Fries & Fries	July	15	32	Turkish petrochemical complex N	Oct	14	35
Lehigh Valley Chemical – hydrofluoric				both industry, economy	Sept	23	17	Mitsubishi Plastics – polyester film venture with Du Pont possible N	July	29	27
acid plant at Easton, Pa	Nov	18	46	and gasoline capacities increased R Ecology fervor sparks refinery building	Oct	21	26	Mitsui & Co. — acquisition of Snam Pro- getti patents for making aromatics, iso-			
plastic for bows and arrows	Oct	28	38	boom (table)	Nov	25	11	prene monomer and polymer and PE . R Chemical sales boosted R	Aug	12	16 43
to ban 15 such combination drugs from the consumer market	Sept	2	28	materials plant at Alcover, Spain R	Oct	7	42	Chiba rejects plans for refinery and			
Lennig Chemicals - Britain's plant buildup				Martin Marietta — Sinclair & Valentine acquired by Pacific Industries N	Dec	23	10	petrochemical complexes R Polymer plant and polyester fiber unit		7	43
(table)	Nov	4	52	Marubeni-lida — PP joint venture in Korea. PV butyral film unit in Mexico N	Dec Dec	16	38 51	in Taegu, Korea	July	29	26
Hedland moving into full production Lever Brothers Co. — enzyme detergents	Oct	14	22	Matador Chemical – Du Pont files suit against Matador for damages to Sabine	Dec	2	51	lic	Aug	5 14	80 35
advertising claims hit by FTC N NTA as a complete replacement of phos-	Sept	30	11	River Works caused by Matador				Mitsui Petrochemical Industries - HDPE technology for Rumanian plant R		8	34
phates in "Liquid All" Omo, a blend of a nonionic and a small	July	15	24	explosion	July	22	10	Hydrocarbon resin plant	Sept	16	23
amount of anionic test marketed N	Nov	18	100	catalytic heaters — letter	Aug	12	8	Japan to have world's first commercial synthetic wood-pulp plant N	Dec	16	37
Libby-Owens-Ford — safety glass wind- shields for '71-model cars	Sept	30	17	contract for 135 workers	Nov	18	45	Kaneka-Belgium see under name	Oct	7	43
Libyan National Oil Corp. – methanol plant near Benghazi N	July	8	10	name				Toluene sold to Standard Oil of Calif. N World's first commercial aniline plant	Sept	16	58
Petrochemical complex contract to		7	14	Contract for caprolactam plant in Mex- ico	July	8	33	using phenol and ammonia as raw ma-		20	~
Power-Gas	Oct	,	14	Contract for Colombian synthetic fibers complex	July	8	33	terial built at Chiba complex N Mitsui Toatsu Chemicals, Inc. – poly-	July	22	39
signs agreement to acquire Elizabeth Arden Sales	Oct	14	22	Mead Johnson — Oracon lawsuit N Meadow River Lumber — acquisition by	Dec	16	9	styrene modified with EPT will be marketed N	Dec	2	43
AC will sue for court enforcement of an agreement N	Oct	28	14	Georgia-Pacific awaits approval R	Dec	2	22	Sueyoshi, Toshio: Keeps his cool when	Dec	16	68
Capital outlay this year may reach \$85	Nov			Meiji Sangyo — technology and equipment for Korean titanium dioxide plant R	July	29	26	going is rough Urea- and melamine-based adhesives plant			
million		11	13	Mekog Albatros — ammonia plant will eventually replace three older units	July	8	15	at Chiba works		18	74
illegal use	Oct	14	21	Melamine Chemicals - melamine plant				prices N	Nov	4	24

Mobil Chemical Co Adam, Ray, presi-	July	15	27	
dent: A Texas oil man who's learned to live in the East	Aug	26	42	
Beaumont, Tex., refinery and chemical complex fire caused by lightning	Sept	30	15	Na
oil production: insulated oil well system will protect the permafrost	July	29	11	Na
N.J.'s Dept. of Environmental Protection charges air pollution N	Aug	12	6	Na
Oil companies are intensifying efforts to improve their public image	Dec	2	19	n Na
Mobil Oil AG – Norddeutsche Erdgas see under name Mohawk Rubber – strike settlement at				s r
West Helena, Ark. Molten Salt Group — molten salt reactor technology study to assess the potential of developing low-cost heat source for	Sept	23	19	
large power plants N Monmouth Plastics – extrusion compounding capacity will be increased R	Aug	19	97	Na
Monomeros Colombo Venezolano – syn- thetic fibers complex will include cap-	Aug	5	21	Na
Monsanto Co. – ABS plant at Antwern	July	8	33	
R July 29-19, R Oct 14-38	Dec	16	42	
sold to FS Services Inc N Book figures layoffs will help to trim	Nov	18	99	N
Bock figures layoffs will help to trim costs \$20 million in '71	Dec	23	15	
prices	Sept	30	21	N
Illinois Power's Wood River station unit	July	22	34	N
alization under Allende? Drops advertising agency and contracts	Oct	21	77	N
projects to independent service groups on a fee basis; other companies are con-				
sidering the idea	July	29	16	N
Formaldehyde units planned at Choco- late Bayou, Tex. and Texas City, Tex. N Aug 5-17	May	26	9	
N Aug 5-17	Nov	25 5	27	N
bottle N Meta-chloroaniline prices N	July	8	39 27	
Methionine hydroxy analog for poultry and cattle	Dec	2	30	
and cattle NTA producer Nhalic addition at Texas City, Tex.	July	22	9	N
PCB will no longer be marketed as a	July	1	29	N
plasticizer or as a hydraulic fluid N PVC bottle prices N Process for continuous spinning of ultra-	Aug	12	21	
thin metal filament developed N Sales and earnings in '70 July 22-19, N	Oct	14	41	N
Oct 14-13 N Technology for Japanese trichlorocarban-	Nov	25	9	
ilide plant	Dec	16	40	
Textiles Div. – fiber makers lay off thou-	Sept	30	17	1
USDA warns "clean up your processing	Oct	21	22	P
of 2,4,5,-T" N Monsanto Chemical Ltd. – maleic anhydride	Oct	7	14	ı
plant in England will use Scientific De- sign process to boost capacity N Monsanto Enviro-Chem Systems, Inc. –	Oct	14	14	1
brink mist eliminators can recover mercury from the hydrogen streams of mercury cell caustic chlorine plants N		9	50	
Bunker Hill's sulfuric acid plant is com-		28	21	,
pleted	July	1	9	i
Technology for De Nora for sulfuric acid plant	Oct	7	42	
Monsanto International Engineering – maleic anhydride plant will use SD				
process N Montecatini-Edison — Executives Bruno		14	14	
Janni and Guido Molteni resign N Merzagora, Cesare, resigns N	July Oct	22 28	39 43	
Campilli, Pietro named to the chair- manship N	Dec	23	31	
Italian government increasing its stake in Montedison	Nov	4	49	
LAB plant under construction	Dec Aug	12	43 25	
69 profits (table)	Oct	14	37	
Sodium chloride plant near Ciro Marina R	Oct Sept	7	40 85	
Montrose Chemical — denies charges of dumping DDT wastes	Nov	4	16	
Moraine Products — antitrust suit filed against Plough and Atlas Chemical over	0	-	17	
Moveland Chemical Co. — identical	Oct	7	17	
chlorine bids may develop into a federal case	July	8	9	
Murphy Oil — Collins Pipelines see under				

Naphtachimie — ethylene feedstock for Fos unit N Nov 11-39 Natoco, Inc. — contract for ammonia pipeline National Can Corp. — can-maker talks could affect labor picture for nonferrous metals Nov 25 14 National Can Corp. — can-maker talks could affect labor picture for nonferrous metals Nov 25 14 National Distillers & Chemical — antitrust suit against Bayer, Holochst and Calibrose relating to Voltage Candon Nov 25 14 National Distillers & Chemical — antitrust suit against Bayer, Holochst and Calibrose relating to Voltage Candon Nov 25 14 National Crystum Politics Nov 19 15 27 National Load — Antimory oxide prices Nov 18 18 99 94 National Load — Antimory oxide prices Nov 18 18 99 94 National Load — Antimory oxide prices Nov 19 14 9-24 National Load — Antimory oxide prices Nov 19 14 9-24 National Load — Antimory oxide prices Nov 19 14 9-24 National Load — Antimory oxide prices Nov 19 14 9-25 Nov 19 14 National Load — Antimory oxide prices Nov 19 15 9-41 National Load — Antimory oxide prices Nov 19 15 9-41 National Retrochemical of Iran — acquisition of Prices Nov 19 15 National Petrochemical of Iran — acquisition oxide Prices Nov 19 15 National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — merger talks with Marck called of Na National Starch & Chemical — March Marc				
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VAM. Bayer charges ND&C with patent infringement. National Gypsum — Zero-Cell: flame-retardant urethane insulation competition National Load — Antimony oxide prices N Sept 30-21 Antimony prices N July 8;28, N Sept 94-1 N Debentures offering N Dec 16 10 Titanium glosside prices N Sept 30-21 Titanium dioxide prices N Sept 30-21 Titanium dioxide prices N Sept 30-21 Titanium gingemis capacity at Langer-brugge, Belgium, plant upped National Patrochemical of Iran — acquisition of Altied's investment in Bandar N Sept 30-21 National Sentchemical of Iran — acquisition of Altied's investment in Bandar N Sept 30-21 National Sentchemical of Iran — acquisition of Altied's investment in Bandar N National Sentheria fertilizer complex at Bandar N National Stochemical Fertilizer complex at Bandar N Nov 11 39 National Stochemical — merger talks with Merck called off N National Stochemical Fertilizer complex at Bandar N Nov 11 39 National Stochemical — merger talks with Merck called off N National Stochemical Fertilizer Complex at Bandar N Nov 11 132 Sept 2 21 Weitron Steel Grop. — Battery of 87 coke ovens to be built by Koppers Nov Nov 11 1 32 Native Lacos & Textilise — Labrecque describes the use of paper chromatography to identify dyes Nov 1 1 23 Native Lacos & Textilise — Labrecque describes the use of paper chromatography to identify dyes Nov 1 1 2 2 3 Natural Cas Pipeline Co. of America — partern in research project to frind out feasibility of bring natural gas from Alaska's North Stope and northern Canada to central Canada to Cantral, lowe 1 1 2 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8-10%N	July	15	27
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12-16 Sept 30 28 Nippon Alfin Rlubber Co. – alfin rubber plant at Goi	venture at Kawasaki	Aug	12	16
plant at Goi . Nippon Carbide – Japan limits UCC deal. July 8 34 Nippon Kayaku – Nissho Kayaku see under name Organic peroxides joint venture with Noury & van der Lande R Nippon Mining – zinc output reduced be- cause of mounting complaints about cadmium pollution July 29 Zen Nippon Petrochemicals – affir rubber joint venture R Nippon Potysoprene – new company plans polyisoprene Co. – new comp	Nippon Alfin Rubber Co. – alfin rubber		30	28
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	Nissho Kayaku — acrylic ester plant at Tsurusaki, Japan			

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wins injunction against suspension of Panogen July 22-27,	July	29	16
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ket for chemicals	Dec	16	27
Norddeutsche Erdgas – sulfur plant at Sulingen will double capacity N North American Chemical Corp. – Ecolo-	July	22	24
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lion cu.ft/day of gas from Canada to the Northern Plains — FPC defers			
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changes at refineries may hurt profitable spent caustic to cresylic reprocessing	Dec	23	33
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Oak Pulp & Paper — nitric acid pulping process may get tryout in Oklahoma . N Occidental Petroleum — Grace's Latin American vinyl holdings purchased . N	July	15	
American vinyl holdings purchased N Hooker Chemical see under name	July	29	11
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mercury seed treatment row; Nor-Am

Olsen Co. — isocyanates plant for Jefferson Chemical	Dec	16	9	Pechiney — magnesium production to be upped	Oct	7	42	Phrix Werke AG — Armstrong, C.C. to manage production and planning, and Dow-Badische's T. Fischel will be responsible for sales	Nov	25	20
name Organon, Inc. — Akzona, new company formed by merger with American Enka,				N Sept 30-24	Oct	7	42	Cellulosic fiber operations may close due	Dec	23	32 31
	Sept Oct	2	81 18	industry in position to challenge Europe's leaders (map, table)	Sept	9	57	to low profitability N Fiber plants at Krefeld and Okriftel will	Aug	12	15
Orinoco Mining Co Puerto Ordaz, Vene- zuela, plant to convert ore fines from the				Peerless Oil & Chemical — Humble's Linden,	Aug	12	15	be closed N Phyto S.A. – formed to pool Ugine Kuhl-	Oct	14	35
Cerro Bolivar deposit into high-iron	Sept	2	22	N.J. blast alters supply lines Peerless Tube Co. — pollution control	Dec	16	17	mann ag chemical interests	Aug	5	84
Ornatex - new company to finish and re-			39	agency says 'clean up or close down' Here's a case in point	July	1	45	milt near Tuscon, Ariz. expansion Pintsche Bamag AG – Bamag Verfahren-	Dec	16	15
Oronzio de Nora - contract for sulfurio	Sept	23		- letter July 22-5, (letter)	Aug	26	5	stechnik GmbH see under name			
Ortho Pharmaceutical - Ortho-Novum gets	Oct	7	42	and choline chloride vitamin for poultry.	Dec	2	26	Pioneer Natural Gas Co. — uranium mining and milling complex in southeast Texas .	Sept	16	21
Lawsuit	Sept	30 16	17	SBP-1382 bug killer will be rough rival for pyrethrum	Sept	23	45	Pioneer Plastics Corp. — new material for decorative surfacing causes jump in			
Osaka Soda – system for removing mercury continuously from waste waters, streams				Penn Central – Buckeye Pipeline Co. see under name				stocks N Pirelli – Dunlop and Pirelli will "consoli-	Sept	2	90
and gases	Dec	16	59	Pennsylvania Industrial Chemical — pro- moting petroleum-based resins as re-				date interests"	Dec	16	16
the autonomy of a small company	Sept	23	58	placements for terpene resins	Dec	2	32	plastic 'give-away' camera to debut in			05
Owens-Corning Fiberglas Corp. – auto strike hurts marketing of reinforcements.	Sept	30	17	gas makers are hauled up on conspiracy	C	0	17	fall	Aug Nov	5	25 21
Bright outlook for glass-fiber producers . Owens-Illinois — Bahamas Agricultural	Oct	28	20	charges	Sept	9	17	antitrust suit over licensing of remedies			
Industries Ltd. see under name Contract agreement reached	Oct	21	25	into Tennessee River	Nov	4	17	for intestinal gas	Oct	7	17
PVC bottles prices N Shares of own common to be purchased N	Aug	12	21 9	City, Ky., complex to be doubled R Harchem Div. to be sold to Union Camp N	Aug Sept	5	9	new corporation: Schering-Plough R Merger approved	July Aug	5	18 27
Oxford Paper - mercury pollution suits Oxicros - Cros agrees to buy Hooker Chem-	Aug	5	26	HFP (hexafluoropropylene) going com- mercial	July	29	33	Shift in ethicals: fewer independents Plymouth – plastics in cars	Oct Aug	21 26	25 12
ical's 50%	Nov	11	38	Lucidol Div. – peroxy initiators reduce cycle times	Aug	5	53	Pocantico Oil & Gas – acquisition by Pan Ocean Oil planned	July	1	18
Oxirane Chemical — propylene oxide plant at Bayport, Tex. gets addition to make				Mercury suits Sharples Centrifuges Div. — Centrifuges	Aug	5	26	Polymer Materials – cellulosic molding and extrusion compounds capacity to be	July	,	10
aqueous tertiary butyl hydroperoxide- 70	Aug	19	27	report. Kenneth Brooks	Sept	16	33	doubled R	Oct	21	26
				Pennzoil United, Inc. — process to make potassium polyphosphates as ultrahigh-				unit at Terni, Italy	Nov	18	74
				Peoples Gas Light & Coke Co. — pooling	Sept	9	55	Polymeros Colombianos — polyester fiber capacity boost	July	8	33
				funds to accelerate natural gas prospecting proposed	Oct	7	17	Pontiac – plastics in cars	Aug	26	12
				Underground natural gas storage reservoir project in Louisa County, Iowa R	July	8	20	quota N Potlatch Forest – pollution control expen-	July	1	27
P/E Development Co drawings by com-				PepsiCo - FDA approval for use of	July	0	20	ditures planned to improve quality of air			
puter cut piping costs PPG Industries — barium carbonate and	July	15	75	plastic bottles made of Barex 210 N July 8-39	July	29	33	and water at pulp mills N Power Gas Corp. – acquisition of Barnag		30	11
chloride prices N Glass-fiber yarns, Triana, introduced . R	Dec	2	35 27	Barex 210 can be incinerated without causing noxious gases N	Nov	4	64	Verfahrenstechnik GmbH N Contract for Libyan petrochemical com-	Aug	12	33
Houston Chemical div. boosts prices of TEL-TML	July	22	15	Perez Companc — Dow considers Argentine partners for ethylene-based petrochemical				plex	Oct	7	14
Houston Chemical Div. — lead antiknock		15	66	project in Bahia Blanca N Perstorp – joint subsidiary with Hoechst in	Aug	12	15	Immingham to be boosted N	Aug	19	97
fluids prices N July 8-28 N Jet fuel anti-icing additive prices N	July Sept	23	22	Goeteborg to produce plastic dispersions N	July	1	31	HDPE process design rights acquired from Solvay	July	8	40
Lake Charles, La., chlorine-caustic capacity will be doubled N	Sept	30	11	Petkim — petrochemical complex in Izmir, Turkey planned N Aug 5-79, Aug 12-16 N	Oct	14	35	Korean plant	Dec	16	38
Peroxy initiators reduce cycle times	Aug	18	53 42	Petramina – polypropylene plant contract to Bechtel	Oct	7	43	Prairie Construction – contract to build	Nov	18	74
Safety glass windshields for '71-model cars	Sept	30	17	PETRESA – alkylbenzene and normal paraffins plant onstream R		16	42	Santa Fe Pipeline's Chaparral line Predicasts Co. — computer data services	July	1	18
Sales and earnings	Oct	21	17	Petro Kimya S.S. see Petkim	000	10	42	help companies find markets, customers .	Dec	16	49
will open new markets N	Aug	26	27	Petrobras Quimica — partner in Ciquine Petroquimica N	Aug	5	79	Preussag — titanium exploration in Sierra Leone	Sept	2	85
Selectofoam 6443-65958 — flame-retard- ant urethane insulation competition . N	Oct	28	27	PetroChem — proposed regulations on the imports of petrochemical feedstocks				Prince George Pulp — chlorine to be bought from Dow	Sept	9	43
Sodium chlorate prices N Sodium sulfur chemicals prices N	Sept Sept	23	22	getting close scrutiny		19	97	Pritchard, J.F. Co. — Chemcell's plant com- pletes pertial conversion to methanol cata-			
Storage and docking facilities at Bayonne, N.J	Aug	26	18	Coating Materials R	Sept	2	87	lyst	Sept	9	55
Titanium dioxide pigment prices N	Dec	9	41	Success and profitability of its ventures, big North Sea find, are heart of com-				plant	July	29	26
Pace Co. – computer data services help com- panies find markets, customers	Dec	16	49	pany's plan to double chemical sales by '75 (chart)	Dec	2	47	Contract for Korea Pacific's petrochemical complex	July	8	33
Market data on tape: PACEX Capacity Data Bank	Sept	23	43	Petroliber – partner in Spain's first petro- leum coke plant	Dec	16	42	Proctor & Gamble — Bold reported to con- tain 4-5% soap plus a few percent of a			
Pacific Gas & Electric – contracts to pur- chase steam	July	29	16	Petroquirhica Argentina S.A. – Argentine petrochemical industry will grow at a	500	,,	-	nonionic	Nov	18	100
Pacific Industries – acquisition of Martin Marietta's Sinclair & Valentine N	Dec	23	10	23%/year pace, says C. Dietl	July	8	34	hit by FTC	Sept	30	11
Pacific Vegetable Oil — Cartwright, Fred- erick board chairman: An outspoken		-		Petro-Tex — maleic anhydride capacity addition for Houston plant N	Sept	2	18	and cattle feed	Dec Sept	2	26 26
entrepreneur	Dec	23	48	Pfizer, Inc. – aureomycin chlortetracycline bacteriostat for animal feed	Dec	2	26	NTA as a replacement for 25% of the former phosphate content of some of	Sept	2	20
for U.S. approved	Sept	9	17	Chemical Div. – magnesia plant in Ireland	Oct	7	43	its principal detergent products	July	15	23
Pan American Petroleum Corp. — will officially become Amoco Production Co.				General Cigar won't sell Ex Lax stock , N Lime capacity increase at Gibsonburg,	Nov	11	13	Productol Co. — process changes at re- fineries may hurt profitable spent			
in Feb. '71	Nov	4	18	O., plant planned N Roerig, J.B. div. selling Geopen, a semi-	Aug	26	11	caustic to cresylic reprocessing	Dec	23	33
plans acquisition N Pan American Sulphur Co. – Susquehanna	Nov	11	13	synthetic penicillin	Aug	19	26	AG acquires 49.5% interest; name will	Nov	18	74
agrees to consolidate assets	July	8	19	Tetracycline case: federal court okays	July	22	19	Progil - carbon disulfide unit at Antwerp			
antico Oil & Gas, Interocean Oil and			40	offer to settle damage suit N Pharma Laboratories – pharmaceutical	July	1	9	running into new opposition N Progil-Bayer-Ugine — toluene diisocyanate	Nov	18	73
Ocean Platinum		1	18	plant near Tripoli may be taken over by Libya N	Aug	5	80	plant expansion at Pont-de-Claix, France R Puerto Rico Olefins – giant splitter for	July	8	33
Pantasote Co. – merger talks with Willcox	Sept	2	87	Phelps Dodge - copper prices reduced . N Philadelphia Quartz Co no family	Oct	28	28	ethylene plant at Penuelas	Oct	28	21
& Gibbs N	July	1	9	hazard - letter	Nov	25	5	judgment on Ziegler patent in battle over polypropylene catalysts N	Aug	5	69
Papercraft Corp. — the gift package: glittering market for chemicals	Dec	16	27	Phillips Fibers – foresees no employee cut- backs	Oct	21	22	Purex Corp soapmakers making a pitch	Aug	9	00
Parke-Davis — acquisition of Brewer Pharmacal approved	July	8	20	Phillips Petroleum Co. — Applied Auto- mation Inc. see under name				to switch consumers back to soap powder	Aug	12	31
Gelatin capsules: company taking steps to prevent illegal use	Oct	14	21	Asks rate hike for El Paso Natural Gas; oil industry and FPC set for gas				Pyrocatechine — Phone-Poulenc plant near Lyon	Oct	7	42
Mergers: "no" to Revion; "yes" to Warner-Lambert	Aug	12	10	fight	Aug	5	24				
Warner-Lambert merger N	Sept	2	18	Gasoline of low lead content offered . N	July	8	9				
Merger is eyed by Justice N Shift in ethicals: fewer independents	Oct	21	25	HDPE market		2	35				
Justice Dept. won't challenge Warner- Lambert merger, but suggests FTC			10	Indonesia polypropylene plant will use		16	45				
take a look at the deal	Nov Dec	25 16	16	Phillips process	Aug	12	43 16	Quaker State Oil - debentures will be			
Parsons, Ralph M. Co. — contract for Shell Oil's "largest sulfur recovery plant in the				LPG prices	Aug	19	85	marketed, purpose: to construct new refinery in Hancock County W. Va.			
U.S."	Oct	14	14	shapes up	Dec	9	10	R July 8-20	Aug	5	27
Illinois coal mines	4 Aug	5	17	ACS meeting	Sept	23	46	approval for petrochemical complex	Aug	12	16

Racon, Inc. — Cleveland: Refrigerant gas makers are hauled up on conspiracy				Ro
charges Radiation Dynamics — Firestone ac-	Sept	9	17	Ro
quires shares	Oct	28	21	o Ro
gamma operation	July	29	18	n
tion	Sept	16	67	
American Nuclear Corp	Sept Sept	23 23	19 19	
Radioptics — Polymer Div. acquired by Millmaster Onky	Nov	4	18	E
REA Express – financial troubles N Reichhold Chemicals – emulsion resin in Morris, III., will be completed in	July	1	19	Ru
OctoberR	Aug	5 18	27 91	Ru
Recreational vehicles market	July	15	57	(
sign of letting up Seamless floors: contractors and sup- pliers seek to rebuild a sagging mar-	Nov	18	134	Ru
Thermosetting resins technology licensed	Nov	18	96	Ru
by Unifever	Nov	4	64	S
Remington Arms — Burdett, Philip, vice- president and general manager. He's no	July	15	27	
marksman, but he calls shots for top gun firm	Oct	28	56	
Hunting market, plastic entry — nylon gun	Oct	28	37	St.
Labor layoffs due to Pentagon decision to by-pass private small-arms ammuni-				F
tion makers	Nov	18	46	St. Sa
pattern for foreign investors? N Republic Carbon Products Co. – metal-	Aug	5	80	C
lurgical coke plant at Bakersfield, Calif., under construction	Oct	28	21	Sa Sa
Metallurgical coke will be made from granular petroleum coke N Republic Steel Corp. – coke ovens: a	Oct	28	35	34
major source of coal-tar chemicals				Sa
for years to come (charts)	Sept	2	21	Sa
tough gas stream flows provided by new valves. Resource Control, Inc. — electrolytic device	Oct	7	52	Sc
to remove cyanide ions from plating	Dec	16	54	Sc
wastes	Dec	2	17	i
Revlon, Inc. – Parke-Davis on mergers: "no" to Revlon; "yes" to Warner-	Dec	4.		(
Lambert Rexene – PE prices Reynolds International – aluminum oxide	Aug Sept	12 16	10 24	Sc
Reynolds International – aluminum oxide plant near Stade, Germany	July	22	38	
plant near Stade, Germany	Dec	2	17	Sc
Rhodia Inc. – new route to fragrances: catalytic reactions convert isoprene to				Sc
Rhodiatoce – fiber and textile complex	Nov	18	109	Sc
near Castrovillari, Calabria	Oct	7	41	Sc
share from Dow Corning	Aug	5	27	
Hydroquinone and pyrocatechine plant	Sept	9	57	Sc
near Lyon	Oct	14	42 37	30
Nylon salt used to produce nylon 6/6 to be swapped with Asahi Phenol and acetone technology for	Nov	4	56	30
Japanese plant	Aug	12	16	Se
packaging paper prices N Rigesa, Ltda. – paperboard mill at Tres Barras. Brazil N	Sept	2	75	
Barras, Brazil	July	1	10	
Robbins, Jim, Seat Belt Co. – air safety bags: four man-made materials under				Se
consideration	Sept	23	11	
development center planned	Oct	7	19	Si
Haas, F. Otto, president moves up to chairman of the board; Ralph Connor	Sept	2	106	
becomes chairman of the executive committee	Aug	12	9	Si
Soybean oil epoxide plasticizers prices . N Total service station package for its	Aug	26	27	S
Plexiglas Rohm & Haas (West Germany) — BASF	Sept	2	79	
Rollins-Purla — plants to treat industrial	July	29	28	
wastes in Baton Rouge and Houston N Roper Co. — all-terrain vehicles propelled by their low-pressure flotation tires	Dec	2	44	
Horer-Amchem - Amchem Div.: Ethrel	July	11	36 43	SI
Amchem Div.: Ethrel ethephon can as	1404	11	40	
much as double yields of rubber trees already in the ground N Amchem Div.: Ethrel 2-chloroethy	July	29	34	
				:

phosphonic acid, growth stimulant is new way to hypo natural rubber				
yield	Aug	5	73	
Equipment — British mixer shreds rub- ber, speeds mixing, cuts power needs Rough Riders Inc. — INI to do research	Oct	7	56	
on costs, effectiveness and reliability of radiating permanent-press fabrics Royal Dutch Shell — BICM see under	July	29	18	
name Considers itself in the top dozen chemical producers in the world; plans to double investment in chemicals; studying the feasibility of shipping				
LNG from Nigeria to U.S. East Coast	Sept	30	24	
plex	Dec	16	40	
P Little 22.20	Aug	12	16	
Rubber Chemicals — Marano, Italy, plant starts up	Nov	18	74	
Goodyear battle for control of Vredestein July 8-17	July	15	27	
Ruhrgas - Russian natural nas 20 year	July			
contract Rumianca — Uniroyal acquires interest in Naugatuck-Rumianca R Aug 12-13 . R	Aug	15	26	
Rust Engineering — Coppe Rust see under name	rug	12	10	
St. Paul Ammonia Products — Apple River Chemical grants option to com- pany to buy all its plant assets R	Aug	19	27	
Acquisition of ammonia business B	Oct Aug	28 19	21 85	
St. Regis Paper Kraft paper prices	Sept	9	20	
coke-oven building business	July	29	27	
Sanyo Chemical Industries - polpropylene	Oct	7		
plant	Dec	16	43	
a Houdry process	Sept	16	23	
Sardinia	Aug	12	8	
produce high purity p-tert,-butyl phenol and p-tert-octyl phenol onstream R	July	8	20	
Schering AG — acquires 49.5% interest in Productos Químicos Schering; name				
will be changed to Schering Espana R German Remedies Taiwan see under name Schering Corp. – Plough agrees to a consolidation into a new corporation	Nov	18	74	
consolidation into a new corporation: Schering-Plough	July	1	18	
Schering-Plough R Merger approved R Shift in ethicals fewer independents	Aug Oct	5 21	27 25	
	Nov	18	74	
Schering will change its name to SE R Schering-Plough — new corporation formed R July 1-18,	Aug	5	27	
	Aug	5	80	
holdings from 25 to 48% . N Scientific Design Ltd. – Mitsui Petro- chemical Industries' aniline plant design . N	July	22	39	
Monsanto's maleic anhydride plant in England will use SD process to boost	Oct	14	14	
capacity Scott Paper – Canso Chemicals see under name Scrambler Co. – all terrain vehicles pro-	Oct	14	14	
pelled by their low-pressure flotation tires				
Searle, G.D. Co. – Enovid gets favorable court ruling	July	8	36	
Files drug application for chemical compound to treat irregular beating	Sept	30	17	
of the heart	Aug	19 28	27 45	
Stock offering	Sept	2	. 28	
and NTA	Aug Oct	12	31 31	
formulations . Sekisur Chemical – PV butyral film unit	July	15	23	
in Mexico	Dec	2	51	
public N Shahpur Chemical – petrochemical fertilizer	Aug	5	80	
complex at Bandar Shahpur dedicated . N Shell Chemical — Britain's plant buildup	Nov	11	39	
(table) Exports hurt as a result of British dock	Nov	4	52	
strike N Gewerkschaft Brigitta see under name	July	29	27	
Industrial Chemical Div.'s Dominquez plant to get new isopropanol plant . N Oxide growth; ethylene oxide pro-	Oct	14	14	
duction at Geismer, La., to be doubled Wax polymer blends prices N Shell Development Co. — Emeryville,	July Nov	29 25	19 21	
Calif., research center staff will be out	Dec	2	22	
Instrument can spot minute quantities of hydrocarbon pollutants in water	Aug	26	15	
to annate with				

the Marine Engineers Beneficial Assn.			
(MEBA) in April, are already unhappy about that decision.	Aug	26	16
Shell (France) - cumene plant near	Sept	16	18
Bordeaux, France R Sept 2-85, N Ethylene plant for France likely N Shell Oil – Great Britain: revising original cost estimates of its five-year oil and	Sept	16	18
chemical refinery expansion program due to inflation	Sept Oct	9 21	56 17
Oil companies are intensifying efforts to	Dec	2	19
improve their public image	Oct	14	14
Shell Research Ltd. – water cooling of blow PP film can cut 12.5% off the cost of	Sept		89
conventional casting N Sherkate Sahami Aliaf – Bayer acquires		2	
Allied's 50% interest N Sherwin-Williams – alkyd color prices . N	July	29 29	28
Sales in the nine months ended	July	1	9
Shin Nippon Carbon – UC joint ven-	Sept	23	22
ture in Japan; operations restricted Shin Nippon Steel – pyrite cinders	July	8	34
purchases cut to reduce pollution	July	29	26
Kashima, Japan discussed	Aug	5	43 27
Showa Denko – Nissoho Kayaku see under name Synthetic wood joint venture at	July	15	21
Showa Neoprene — chloroprene plant	Aug	12	16
will be customer for Tonen Petro- chemical's butadiene plant R	Dec	16	39
Showa Ugika – synthetic wood plant at Kawasaki	Aug	12	16
Silverson Machines — British mixer shreds	July	1	31
rubber, speeds mixing, cuts power needs Silvichem Corp. — Canadian process up- dates old idea, could turn wood waste	Oct	7	56
into a major raw material for sorbitol and other chemicals	July	29	30
Simon-Carves Chemical Engineering - ISO.	July	15	75
PEDAC system Sinclair-Koppers – LDPE sheeting prices N PE prices	Nov	11	27 24
PE prices	Sept	10	24
settlement N Aug 5-18, N Singer Technical Services, Inc. – computer time-sharing system set up to	Aug	12	6
search and match curves produced by infrared spectroscopy	Sept	2	65
Sinorgan - aliphatic amines joint ven-	Oct	14	38
Skelly Oil – Hawkeye Chemical see under name Nuclear Fuel Services see under name	OCI	14	30
Stock offering	Oct	7	19
Smith Kline & French - employee layoffs Nasal sprays: plans to ban 15 such com-	Nov	4	16
bination drugs from the consumer market Smith Kline Instruments – INI to	Sept	2	28
sterilize plastic-encased distilled water	July	29	18
Snam Progetti — Mitsui acquires patents for making aromatics, isoprene monomer and polymer and PE		10	10
Snia Viscosa - anhydride units planned	Aug	12	16 41
Carbon disulfide plant for Russia N Colleferro, Latium plant expansion R	Aug Dec	5 16	80 42
'69 profits (table)	Oct	14	37
build Portugal's third refinery and adding aromatics units .	Aug	12	16
Soc. Chimique des Charbonnages – VCM will be bought from Limburgse Vinyl			
and polymerized at DSM plant R Soc. Commerciale pour 1 'Agriculture et 1' Industrie – formed to handle Ugine	July	22	38
Kuhlmann fertilizer sales	Aug	5	84
from Cie, de Mokta	Sept	23	19
the shares of Soc. de Engrasis Chimiques et Organiques	Dec	16	40
Organiques — Prayon seeking to acquire all the shares	Dec	16	40
ment plant will use Dorr-Oliver's Fluo- Solids process	July	8	33
prises Industriellas — CSB see under name Soc. Generale du Magnesium — magnesium			
Soc. Hellenique D'Engrais et de Produits	Oct	7	42
Chimiques – sulfuric acid plant R Soc. Industrielle des Silicones – Dow Corning sells its share of SISS to Rhone-	Oct	7	43
Poulenc	Aug	5	27
venture methanol plant at Arzew N Detergent production study N	Dec Oct	21	51 31
LAB for soft detergent may soon find a large domestic market in Italy	Aug	12	25
Petrochemical expansions in Naples, Sardinia, Calabria and Sicily N Sales and earnings for 1969 N	Oct	28	43
Sales and earnings for 1969 N SBR plant and capacity increase plan-	July	22	39

	Oct	7	41	and emulsions prices N	Oct	14	28	headquarters' head will be H.V.W.			
Soc. Le Nickel – Kaiser Le Nickel see under name				Steelcote Mfg. – seamless floors: con- tractors and suppliers seek to rebuild a sagging market	Nov	18	96	Robe River Iron Ore project in Western	Aug		27
Soc. Mineraria e Metallurgia di Pertusola – Italian sulfuric acid plant contract to De Nora	Oct	7	42	Stepan Chemical – acquisition of General Aromatics		25	16	Australia set to begin	July	0	20
Soc. Nationale des Petroles d'Aqui- taine – Aquitaine Organico see under			**	Sterling Drug – strikes: union uses product boycott to bolster strike action	Oct	14	23	Thermal Power Co. — will sell steam to	July	22	33
name	Sept	9	57	Moves 1,350 employees into its new	Sept	16	24	Thermon Manufacturing - SECT system	July		16
Soc. Technique d'Enterprise Chimiques Kellogg, M.W. acquires 1/3 interest;				Pay raise for 40,000 workers	Dec Nov	23 18	18 45	Thiokol Chemical - air safety bags: four	Nov		43
another 1/3 sold to Sodetag sub- sidiary of Thomson Brandt N	July	22	33	Stora Kopparbergs Bergslags will	Dec	23	31	Army contract for production of illumin-	Sept		11
Sodetag – purchases 1/3 interest in STEC		22	33	build plant to make new type of non- woven textiles	July	8	33	Contract for production of solid-propell-	Sept		17
Marbon's line of adhesives for ABS				Sumitomo Chemical — appropriates about \$7.1-million for pollution con-			00	Crosby, Joseph resigns, will become chair-	July	15	26
plastics	Dec	23	18	BHT antioxidant production at Ohita		.5	80 26	man of the board's executive committee, replacing him H.W. Ritchey and Rob-			
plants at Jemeppe complex and new pipelines; chloromethanes plant at				Ethylene plant plans cut in half N	July Dec	29	51	ert Davis will take over as president and chief operating officer	Dec	23	14
Tavaux, France			38	Sales could reach \$1 billion year by	July	22	38 18	Nissho-Awai Co. appointed exclusive sales representative in Japan R Solid-fuel rockets plant at Bristol, Pa.,	Sept	2	28
HDPE design rights acquired by Power-	July	22	33		Aug	12	15	hit by an explosion	Aug	26	18
	Oct		37	plant in Malaysia, using Sumitomo	Aug	5	80		July	22	41
oxide and organic peroxides in Fin- land	Aug	12	16	Turkish petrochemical complex N Sun Chemical – Barr, Edward, executive	Oct	14	35	identical chlorine bids may develop	July	8	9
Sonatrach – methanol joint venture plant at Arzew, Algeria		2	51	v-p: A young man who's made it in the Establishment	Nov	4	72	USDA warns "clean up your processing	Oct		14
Will supply natural gas for 25 years to Columbia Gas and El Paso N		30	21	Sun Oil — East Coast olefins project plans shelved	Dec	9	7	Thomson Brandt — Sodetag see under name Time Petroleum — electromagnetic subsur-			
Soris – study finds Common Market's chemical industry is best prospect for				Marcus Hook, Pa., complex to make olefins and aromatics	Aug	12	8	face survey system to probe for oil depo- sits will be tested	July	15	32
purchase of large computers N Southern Extrusions — Howmet Corp.	Aug	19	31	Texas refinery damaged by Hurricane Celia	Aug	12	12	Titangesellschaft — Malaysian titanium di- oxide plant study	July	1	31
Southern Petrochemicals Corp Polymers	Nov	11	23	Susquehanna Corp. — Pasco agrees to consolidate assets	July	8	19	Toagosel Chemical Industry — acrylics boosted	Dec	2	52
Div. — Houston polystyrene plant ex- pansion N	July	29	12	Swift Chemical — adhesives plant at Madison, III. under construction R	Nov	11	23	of mounting complaints about cadmium			
Speed-Gloss Co. — lead paint poisioning prompts a look into three bills to re-				Australian investments may be merged . N Sybetra, S.A. – consortium will engineer	Nov	18	38	pollution	July	29 29	26 26
gulate the labeling and sale of such paints and help communities remove lead				a government-industry-owned acrylonitrile plant in S. Korea R Sybron – Pfaudler Div. – Centrifuges re-	July	15	32	Toagosei Chemical Industry – acrylics boosted	Dec	2	52
Sperry Rand - all-terrain vehicles pro-	Sept	2	24	port. Kenneth Brooks	Sept	16	33 27	Toho Zinc — zinc output reduced because of mounting complaints about cadmium			
	July	8	36	Sylvite — potash production quota N Synres — DSM will buy Allied's 50% share in Synres N		23	39	Zinc oxide price increased	July	29 29	26 26
Squibb, E.R. & Sons – animal feed additives producer	Dec	2	26	Syntex - Zoecon Corp. see under name Syndicat Belge D'Enterprise a	Jopt	25	99	Tokuyama Styrene Monomer — ethylben- zene plant and styrene unit at Tokuyama	D	10	20
	July	1	9	l'Etranger – East Germany orders ethylene plant	Aug	5	80	City	Dec	16	39
nucleic acids-related chemical com- pounds for International Chemical								Russia	Dec	16	40
Nuclear	Aug	26	18					at Kawasaki	Dec	16	39
Charles of the Ritz possible R Stamicarbon — Czechoslovakian nitric acid	Nov	4	18					plant R July 29-26	Dec Dec	16 16	38 38
plant will use Stamicarbon process N Portuguese plans	Aug Aug	12	80 16	TAFA/Ionarc - plasma processing system				Toray Industries — acrylic wigs Polymer plant and polyester fiber unit	Sept	30	17
	Aug	19	27	dissociating zircon sand to a composi- tion essentially 70% zirconia and 30%				in Taegu, Korea	July	29	26
Standard Brands, Inc. — Court order to reduce industrial wastes into the Hudson				silica	Aug	19	97	panding into fiber raw materials and plastics	July	22	39
River Standard Gravure - solvent recovery plant	Nov	4	17	and turn out about 200,000 hairpieces/ month	Dec	2	20	Total Chimie - Cie, de Petrochimie see under name			
at Louisville, Ky., to be built R Standard Oil of California – Chevron	Oct	21	26	Taiwan VCM - VCM plant near Toufen , R Tanabe Seiyaku - sales subsidiary in San	July	29	26	Elf-ERAP and TC combine almost all their petrochemical operations into			
Chemical see under name El Segundo plant fined \$7,000 for	Oct	14	22	Diego, Calif., set up	July	8	34	Aquitaine Organico N Joint-venture projects	Sept Sept	16	18 57
polluting the air		16	58	iary in San Diego, Calif R Tantalum Corp. – Spodumene being tested	July	8	34	Naphtha contract with Dow for feedstock for ethylene plant at Terneuzen,			20
power business	Sept	16	21	in new flotation process N Tata Enterprises – Solvay-process sodium	Sept	2	90	Holland	Dec	9	20
improve their public image Standard Oil Co. (Ohio) — Barex	Dec	2	19	carbonate plant in Argentina N Techmashimport — Russia to launch big	Nov	18	73	technology Sept 16-23	Sept	30	28
used in Pepsi-Cola's plastics bottle N Barex 210 glass substitute descrip-	July	8	39	petrochemical project with U.S. tech- nology	Dec	16	15	project with U.S. technology Toyo Melamine – melamine plant at	Dec	16	15
tion	July	29	33	snaring precious metals from acid solu- tions undergoing feasibility studies N	Dec	2	43	Osaka	Oct Dec	21	32 52
out causing noxious gases N Ecology fervor sparks refinery building		4	64	Technip – contract for Indian caprolactam plant	Aug	5	84	Chloroprene unit and tetrahydrofuran plant under construction R	Dec	16	39
Partner in research project to find out	Nov	25	11	Tect, Inc. — new, safer way to stabilize 1,1,1-trichloroethane developed N	Nov	4	64	Ethyl Toyo see under name Nippon Polyurethane Industry see under			
feasibility of bringing natural gas from Alaska's North Slope and North-			*	Teijin Chemical — polyester for fibers new approach developed N		25	27	name Toyobo - terephthalic acid plant at			
ern Canada to central Canada and U.S. Midwest N Stauffer Chemical Co. – Carrageenan	July	22	23	Teijin Ltd. – polymerization catalyst rights sold to ICI		8	39	Mizushima, using Amoco technology . R Trail Chef – foods for campers	July	29 15	26 60
plant in South Portland, Me., acquired . R	July	8	20	Turkish joint-venture dimethyl tereph- thalate and polyester fiber plant R	Oct	7	43	Trans Canada Gas Products - Canadian NGL for U.S. approved	Sept	9	17
Detergent phosphates have not been proved to be key factor in autrophica-	habre	16	24	Tenco Hydro/Aerosciences — analytical labs are suppling mass screening serv-				Trans-Canada Pipe Lines - Canadian NGL for U.S. approved	Sept	9	17
Glass-fiber-reinforced tank made in one	July	15	25	among potential employees	Dec	2	41	Natural gas exports to U.S. to be in- creased	Oct	7	37
big piece letter	Sept	2	14	Tenneco Chemicals Inc. – management realignments New Kern County Land Co. see under	Oct	14	19	feasibility of bringing natural gas from Alaska's North Slope and northern			
Hoechst purchases 50% share in Stauffer Hoechst Polymer; new company		,,,	00	name Thiophthalimide as a mildew preventive				Canada to central Canada and U.S. Midwest	July	22	23
called Hoechst Polymer	Dec	23	14	in paints	Sept	23	49	Transcontinental Gas Pipe Line - applica- tion filed to build major interstate gas	,		
solving problems (chart)	Oct	14 16	49 45	under name Natural gas pipeline system expansion . N	July.	22	9	line system in the newly developed areas off the Texas shore	l Aug	19	18
Sodium hypophosphite monohydrate and phosphoric anhydride prices				Petro-Tex see under name Plans to form an international consortium				Tuberias y Materiales Plasticos - PVC pipe	ł Aug	26	18
N Nov 25-21 N Sodium sulfur chemicals prices N		23	35 22	to dredge manganese-rich nodules from the ocean floor	I Sept	2	17	plant will be built with Japanese help . No Turner & Newall — sales and earnings	l Aug	5	80 12
Strike: Niagara Falls, N.Y. strike set- tlements	Sept	9	18	Tennessee Eastern Transmission — two pro- cesses to make synthetic pipeline gas . N		16	68				
Stauffer Hoechst Polymer — American Hoechst purchases Stauffer's 50% share	Dec	23	14	Texaco — oil companies are intensifying efforts to improve their public image	Dec	2	19				
Charges bribery in union vote at Delaware City, Del., PVC film and sheeting	Dec	2	19	Texas Gas Utilities — gas-gathering system from western Texas gas reserves to				Udylite Corp chlorination method to			
Stauffer-Wacker — dimethyl silicon fluids	CABC	2	19	Dallas	i Sept	30	17	remove cyanide ions from plating wastes	Dec	16	54

Ugine-Kuhlmann — acrylonitrile joint plant at Tarragona, Spain	Dec	2	52	promissory notes		8	20	Nasal sprays: plans to ban 15 such com-	Aug	12	10
Forms Sobrom to produce brominated soil furnigents	Dec	16	42	plant at Wesseling, W. Germany	Aug	12	0	bination drugs from the consumer mar- ket	Sept	2	28
challenge Europe's leaders (map,				R Aug 12-13 R	Aug	12	16	'yes' to Warner-Lambert	Aug	12	10
Greek sulfuric acid plant will use Ugine	Sept	9	57	Air pollution problems at Painesville, O., plant eliminated N	Nov	18	37	Merger is eved by Justice N	Sept Oct	14	18 14
process	Oct	7	43 42	Co-s, un polypropylene filter material — ACS meeting	Sept	23	46	Shift in ethicals: fewer independents Justice Dept. won't challenge the mer- ger, but suggest FTC take a look at	Oct	21	25
will probably be eased out N Sept 30-24	Oct	7	42	tire makers requiring an end to leasing arrangement with bus companies N	Nov	11	14	the deal	Nov Sept	25 2	16 26
Private consortium in nuclear fuel proces- sing is shaping up N	Nov	18	114	Flotation tires	July	8	36	Williamson Candy Div. — O'Henry! candy bars recalled because traces of potentially			
Reorganizing chemical operations; set up two new companies	Aug	5	84	Geismar, La	Oct	23 28	18	Water Pollution Research & Application -	Sept	30	17
Soc. Technique d'Enterprise Chimiques' 1/3 interest sold to Kellogg another 1/3 to Soderag	forter	22	33	Uni-Tech — acquired by J.T. Baker Chemi- cal	Dec	23	18	Alcolac Chemical acquires additional shares	Aug	5	27
1/3 to Sodetag N Uhu Werke, H.U.M. Fischer – acquired by	July	22		sing, fabrication and fuel management				Army nitric acid plants N	July	1	9
Beecham	Dec	16	42	for the Dresden nuclear station	Sept	16	21.	Gets contract from Corps of Engineers	Aug	5	27
Oceangoing "Hawaii" can carry 16,000 tons	July	29	15	growing at a faster rate than that of the industry as a whole	Dec	23	16	tion of Allied's coke-oven building busi-	Sept	9	20
licensed from Reichhold N	Nov	4	64	microbicidal additive, Biobor, kills bac- teria in fuel oil tanks	A	-	63	Wellman-Lord - prototype unit to clean	Sept	9	51
Union Camp — Chemical Div.'s v-p and general manager — His mission: double				U.S. Composites Corp acquired by Rad-	Aug	5	53	West Coast Transmission - natural gas ex-			
division sales by '75	Dec	2	56	iation Technology	Sept	23	19	ports to U.S. to be increased N West Point-?epperell — Georgia seeking	Oct	7	37
paper prices N			75	PE prices	Sept	16	24	legal action to get WP-P moving on in-			
Pennwalt's Harchem Div. to be bought N Tall oil fatty acid prices N	Sept	23	9	U.S. Industries, Inc closing in on the	Oct	21	78	stallation of pollution control equip- ment at Lindale, Ga. mill R	Aug	12	13
Union Carbide – acrylic ester prices N Anmoore, W.Va. removes ceiling on the	Dec	2	35	top 10 U.S. Mineral Co. — Cafco Blaze Shield	Sept	16	65	Wage increases	Sept	16	24
company's tax payments	Dec	16	17	Type DC/F — nonasbestos alternate	Sept	16	62	terest R	Sept	2	85
Arylamide and acetoacetanilide prices . N Bigger payout to employees – letter .	Nov	18	99	U.S. Plywood-Champion Papers — strike ends after new three-year agreement	Oct	28	20	Westinghouse Electric Co. – electronic "gun detector" to help prevent air-			
Bisphenol A capacity at Penuelas, Puerto				U.S. Smelting, Refining & Mining - shares	July		9	plane hijackings	Oct	7	17
Rico to be doubled	Sept	9	20	of own common to be bought N U.S. Steel Corp. – coke ovens: a major	July	8	9	Heat Transfer Divmine water demineral- ization plant at Wilkes-Barre, Pa. to be			
hauled up on conspiracy charges Coal shortage chills chemical profit	Sept	9	17	source of coal-tar chemicals for years to come (charts)	Sept	2	21	built for Pennsylvania's Dept. of Mines	Oct	28	14
hopes (chart)	Oct	21	21	Universal Oil Products — catalytic mufflers will save motorist money and contibute				Nuclear turbine plant ships the first major components	Aug	12	13
Credit: revolving credit agreement with 23 banks renewed	Aug	19	27	to lower air pollution levels	Oct	14	18	Water desalting plant on the island of			
Dimethyl silicone fluids and emulsions prices	Oct	14	28	Chicago will be first to try new catalytic converters on cars	Sept	16	25	Malta under construction		14	22
'DISC' plan: export now, pay income				Currene technology for Japanese plant R Isomax process for Japanese plant R	Aug	12 16	16 40	Div. acquires B.C. Interior Sawmills R	Dec Aug	16 5	18 26
taxes later (table)	Aug	14	35 13	Process Div. will distribute silicone anti-				Mercury suits Willcox & Gibbs - merger talks with			
Epoxy plasticizers prices N EVA copolymer prices N	Sept	2	75 27	foams manufactured by GE R Univex – caprolactam plant near Sala-	Nov	18	46	Pantasote N Williams Brothers – Alaskan oil: ways to	July	1	9
Ethylene derivative prices being adjusted N	Sept	16	58	manca, Mexico	July	8	33	ship North Slope oil studied	Sept	2	23
Fatty acid prices	Aug	4	21 24	Neb	Nov	25	16	pansion program N	Nov	4	10
Glyoxal prices N Japan restricting operations in terms of	Dec	2	35	Cleocin, semisynthetic antibiotic, being sold	Aug	19	26	Windecker Research — plastic plane makes commercial debut	Oct	7	16
size, licensing and other factors Japan's Komachi will import UC's Dynel	July	8	34	Nasal sprays: plans to ban 15 such com- bination drugs from the consumer mar-				Winley-Morris - acquired by International Chemical & Nuclear	Dec	9	14
and turn out about 200,000 hairpieces/	_			ket	Sept	2	28	Winnebago Industries - polystyrene for RV			
month	Dec Sept	2 23	20 22	Prostaglandin research program Tetracycline case: federal court okays	Oct	28	45	Wintershall — Antwerp expansion	July Nov	15	56 56
Linde Div. — Oxygen producers zero on waste treatment (chart)	Nov	18	95	offer to settle damage suit N Orinase and Provest controversies: one in,	July	1	9	Witco Chemical — explosions and fire at Amalie refinery in Franklin, Pa. July			
Linde Div Unox system will be tested	,,,,,,			one out	Nov	4	15	1-16	Aug	12	6
for oxygenation for waste treatment in NYC's Newtown Creek plant N	July	22	33	complex will be built in northern Saskat-		00		look into three bills to regulate the			
Sludge treatment chosen by New Jersey's Middlesex authority N	Oct	7	48	Processing installation at Lake Wollaston,	Aug	26	11	labeling and sale of such paints and help communities remove lead paint from old			
Marietta, Ohio plant: stack gas scrubbing system to meet emission limits for				Sask., okayed	Sept	9	16	buildings	Sept	2	24
power station N	July	29	33	ical Co	Dec	9	29	for Associated Octel	Dec	16	42
Vienna, W. Va. charges pollution from SO emissions from Marietta plant	Dec	9	11					pany will buy cement plant of Wyan-	0-4	20	21
Monomethyl ethers of ethylene glycol and diethylene glycol prices N	Sep	t 23	22					Wyandotte Chemicals - BASF's U.S. op-	July	28	73
Moscow show chalks up \$2 million in sales	Sep		26					BASF Wyandotte see under name	July	13	10
Oil and gas holdings may be spun off. N Olefins Div. takes steps to prevent another	Nov	11	14	Velsicol Chemicals — benzoic acid plant at Chattanoogs, Tenn. contract to Cat-				Cement plant will be sold to Wyandotte Cement	Oct	28	21
Paint latex plant at Alsip, III. under	Sep	t 23	18	alytic Inc	Oct Dec	7	19 45	Ohio suing over mercury discharge into Lake Erie	Oct	21	25
construction	Oct		13	Ventron Corp. — Alfa Inorganics see under	CACC	10	40	Pluragard 601 enters flame-retardant		28	27
Phthalate plasticizers prices N Sept			58	name Counting on performance chemicals for				urethane insulation competition N Strike: Geismar, La., plant employees	OCI	20	21
23-22	Dec	9	41	20%/year growth Process for recovering mercury in waste	Dec	16	63	charged with beating two supervisors, fired; union demands they be reinstated			
of "biodegradable" plastic packaging	Sep	t 9	15	streams N	Dec	16	59	as a condition for settling the 3-month-	Come	9	18
PE: low-density, film and resin prices N July 22-24, N, Sept 2-75, Sept 16-24				Vereinigte Aluminum-Werke — aluminum oxide plant near Stade, Germany R	July	22	38	old strike	Sept	8	19
N Nov 4-24,	Dec July		41 24	Verona Dyestuffs - Thiel, Gunter describes				Wyandotte Industries - merger with First Hartford Realty	Aug	26	18
Rhodesia's chrome ore problem may be				the development of a new group of mod- ified cationic dyestuffs at AATCC con-				Wyeth Corp Orval lawsuit N	Dec	16	9
Sevin replaces DDT in battle against	Jul	y 1	10	ference	Nov	11	23	Wyeth Laboratories — Prostaglandin re- search program	Oct	28	45
gypsy moths	Jul No		29 21	makers change formulas in wake of FDA crackdown	Aug	19	24				
Thornel graphite yarn for Intrepid's				Vickers-Zimmer - Nylon-6 tire plant in							
spinneker pole	Ser Oct		48 48	India	Aug	12	16				
Union Carbide Canada Ltd. — Canadian profits up	Au	9 12	16	manufacturing technology and technical assistance for the production of cellulose							
Economy slump stunts Canadian chemica				film N	Nov	25	32	Yacimientos Petroliferos Fiscales - aro-			
growth (tables)		v 25	33	Voest – East Germany orders ethylene plant	Aug	5	80	matics project goes ahead N Yoo-Hoo — Chilean high-protein beverage		8	32
contender for detergent markets emerging in Europe		v 25	27	Vulcan — technology for Mawkeye Chemi- cal's urea expansion N	Nov	18	114	plant in Santiago onstream R	Dec	16	18
Union Chimique Elf Aquitaine - Cie. de Petrochimie see under name											
Joint-venture projects	Sep	ot 9	57								
plant at Tarragona	No.	v 18	73	Warf Institute, Inc study of the effecti-							
Union Oil Co. of California – contracts for the conversion of the geysers area				veness of detergents and disinfectants in killing bacteria and viruses will be				Zenkoren - Japan to push prefabs: series			
of northern Calif. into world's largest source of electrical energy generated				carried out	July	1	19	of agricultural communities envisioned Zoecon Corp. — Syntex sets up separate	Nov	18	74
by geothermal steam	Jul	y 29	16	Warner-Lambert — mouthwash: will "de- fend" its Listerine brand against any				company to pursue work on hormones			00
Debenture marketed to help prepay				FDA effort to get the germicidal				for insect control	Aug	19	98